MUSSEL FORK CREEK WBID 674

Recreational Use Attainability Analysis

May 2007

PREPARED FOR:

RFP No: B3Z07134

Water Quality Monitoring & Assessment Section
Water Protection Program
Division of Environmental Quality

MISSOURI DEPARTMENT OF NATURAL RESOURCES

P O Box 176 Jefferson City, MO 65102

PREPARED BY:

MEC WATER RESOURCES, INC.

1123 Wilkes Blvd., Ste. 400

Columbia, MO 65201

Data Sheet A - Water Body Identification

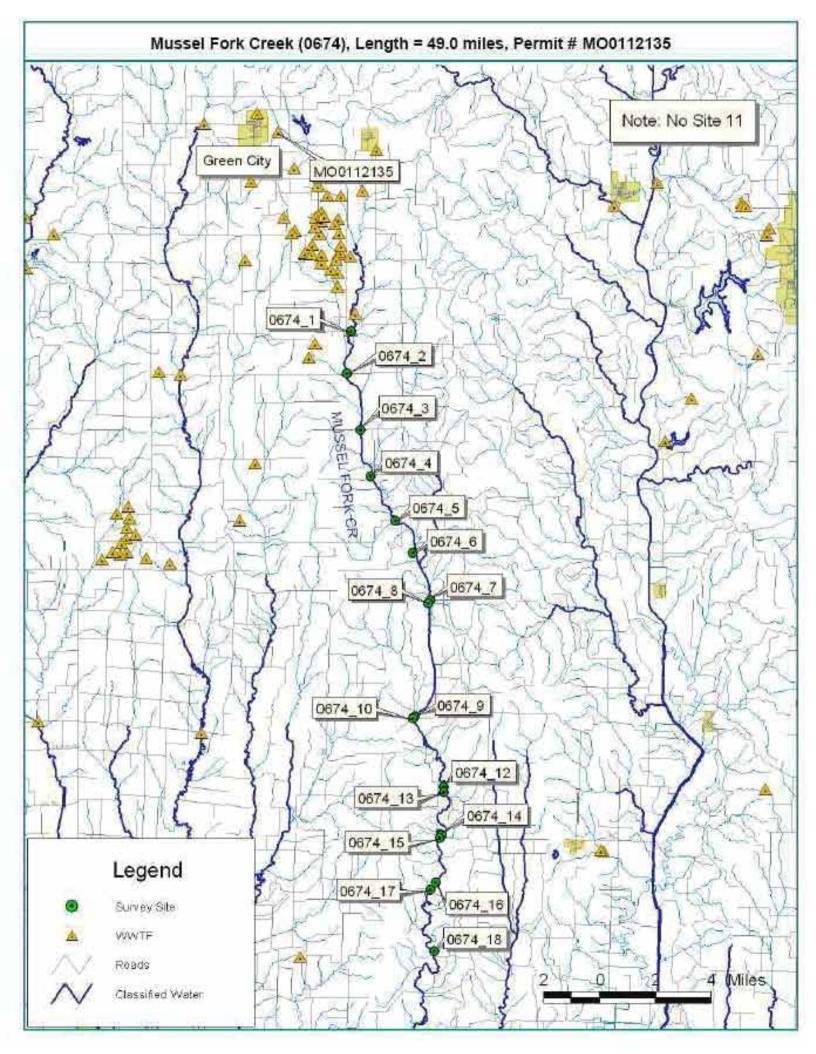
I. Water Body Info	ormation (For water body being s	surveyed)
Water Body Nar	me (from USGS 7.5' quad): //	Inssel Fork Creek
	Body Identification (WBID) Nu	
8-digit HUC:	10280202	County: Sullivan/Adir/Macon
Upstream Legal	Description (from Table H):	2,62W,18W
Downstream Le	gal Description(from Table H):	18,58N,17W
	evaluated 17	
List all sites nun	nbers, listed ensequantly upstrea	am to downstream:
51405 1 -	(we site !) - no access	to site II available - De cases where subsegmentation is being proposed)
II. Subsegmentati	on (fill this section out only in o	cases where subsegmentation is being proposed)
Upstream Coord UTM X		Downstream Coordinates: UTM X Y
	CTION METHOD (Indicate the method used to det	
	Global Positioning System (GPS)	Interpolation
Static Mode		Topographic Map or DRG
Dynamic Mode (Kir	nematic)	Aerial Photograph or DOQQ
Precise Positioning	Service	Satellite Imagery
Signal Averaging		Interpolation Other
Real Time Differen	tial Processing	
HORIZONTAL ACCURA	L. Manager and Control of the Contro	Internal affice Date Over the
EOM	GPS Data Quality ± Meters	Interpolation Data Quality Source Map Scale: 1:24,000 1:100,000 Other
FOM		eters
PDOP	±Feet or ±Me	±Feet or ±Meters
III. Discharger Fa	cility Information (list all permi	
Discharger Faci	Hits Mama(a)	ity WWTF
Discharger Peri	nit Number(s):	
	MO 011	2135
	r (please print legibly)	m
Name of Surve	YOU JENNY HRABIK	Telephone Number: (5 73) 443 - 4100
Position: Fie	mployer: MEC Water	- Resources / AESolutions
Tosition. Fig	a ilen.	
Please verify that	you have completed all section	ns, checked all applicable boxes and that everything is
complete.	Messella	72 4 11 7007
Signed:	ny Phabito	Date: 23MAY 7007
A	Duc	F - 2 // 17

February 16, 2007

Data Sheet A - Water Body Identification

	Information (For water body being s	
	Name (from USGS 7.5' quad): Mu	
Missouri W	ater Body Identification (WBID) Nu	mber: 0674
8-digit HUC	C: 10280202	County: Sullivan
Upstream L	egal Description (from Table H): 2,	62N, 18W
Downstream	n Legal Description(from Table H):	18, 58N, 17W
Number of	sites evaluated: 17	
1,2,3,4,5,6,	s numbers, listed consecutively upstro 7,8,9,10,12,13,14,15,16,17,18	
I. Subsegmen	ntation (fill this section out only in c	cases where subsegmentation is being proposed)
Upstream C UTM X	Coordinates: Y OLLECTION METHOD (Indicate the method used to determine)	Downstream Coordinates: UTM X Y
HORIZONTAL	Global Positioning System (GPS)	Interpolation
Static Mode		Topographic Map or DRG
Dynamic Mod	e (Kinematic)	Aerial Photograph or DOQQ
Precise Positi	oning Service	Satellite Imagery
Signal Averag	ging	Interpolation Other
Real Time Dif	ferential Processing	
HORIZONTAL AC	CCURACY ESTIMATE	Laboratelian Data Overlie
FOM	GPS Data Quality ± Meters	Interpolation Data Quality Source Map Scale: 1:24,000 1:100,000 Other
EPE	±Meters ±Feet or ±Meters	
PDOP	1001 01 1	±Feet or ±Meters
I. Discharge	r Facility Information (list all permit	
	Facility Name(s): Green City WWT	
Discharger	Permit Number(s): MO 0112	135
. UAA Surv	eyor (please print legibly)	
Name of St		Telephone Number: 573-443-4100
	on/Employer: MEC Water Resources	s, Inc.
Position: R		
•	hat you-have-completed all sections	s, checked all applicable boxes and that everything is
mplete.	1	Date: 5/23/07
gned:		Date:/ 53/0/

February 16, 2007 Page 1

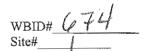


WBID# 674 Site#

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Date & Time: 22MA		Sit O		ription (e.g., road crossing):	wide.
Personnel (Data Collectors):				mof HwyH B	
Current Weather Conditions	: Overcast 7	Per	cility Name: (mo 0112135	ger .
Weather Conditions for Past		rain			
Drought Conditions?: No da			e III □; Phase I	V □; Unknown	
		<u> </u>			
lite Locations:	NIVERSAL TRANSVERSE	MERCATOR PROJE	CTION, IN METERS	S)	
Site GPS Coordinates: UT	rm x: 15 T 05	509339	Y: 41	1455910	
HORIZONTAL COLLECTION M	ETHOD (Indicate the metho	d used to determine	the locational data.)		Marie Company
Static Mode	Positioning System (GPS	5)	Topograp	Interpolation hic Map or DRG	<u> </u>
Dynamic Mode (Kinematic)				otograph or DOQQ	
Precise Positioning Service			Satellite li		
Signal Averaging			Interpolat	ion Other	
Real Time Differential Proces	ssing				
HORIZONTAL ACCURACY	ESTIMATE	and I couldn't the the state of	and the DOS of Avel Light on London Law and Leaves.		
	GPS Data Quality			Interpolation Data	Quality
FOM ±	Meters		Source I	Map Scale: 1:24,000 1:100,00	00 Other
EPE ± /	EFeet or ±	Meters		±Feet or ±	Meters
PDOP					
hotos:					
Photo ID# (WBID Site# ##)	Photo Purpose and Dire (upstream, downstream, other		Photo ID# (WBID Site# ##)	Photo Purpose	
674-1- 1032 (psiveam		674_1-10	36 PWSD Flags 37 Fenceat T	4 PP (T3)
674 1 1033	icultern	4			3
674 1 1034 9	510,04 (downs	tream of 12	idac, 14 b	ank)	
W f f and f areas	Bridge (How	1	48 6	,	
Jses Observed*: (Uses	J ·	2	ey.)		
☐ Swimming	☐ Skin diving	☐ SCUBA	diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating		☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing		None of the above	☐ Other:
_	11.		ation of evidence	of recreational uses, etc. Use	
Use Interview when conduct	ting interviews.)				
Surrounding Condition	S*: (Mark all that promot	e or impede recreation	onaluses Attach n	hotos of evidence or unusual item	e of interect)
☐ City/county parks		MDC conservat		☐ Urban areas	☐ Campgrounds
☐ Boating accesses	\\	National forest	S	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	X Fence	Steep slopes		None of the above	Other:
Comments:					
pic# 674_1_	1034 (Slove)	1 # 127	4111	137 fence at	7 3
	1010	1 47 4/1	ROMEN HOUSE TO BE	were to the same of the same o	· ~



Data Sheet B - Site Characterization

₹ Roads □	Rope swings	☐ Foot paths/prints	☐ Dock/	platform	☐ Livestock \	Watering	□ RV	ATV Tracks
☐ Camping Sites		☐ Fire pit/ring	₩ NPDE	S Discharge	☐ Fishing Ta	ckle	Othe	er:
Comments:	_	. = = / ' '	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	n 11 /	1 100	10 /	T3)	
pic# 6	4-1-1	035 (Bridge)	ρ	L# (0+4	-1-10P	WISD	Flac	15 + pipe
eam Morphology							J	
Upstream View's		criptions: Is there	any water	present at th	is view?	Yes □	l No	
		If so, is	there an ob	ovious currer	nt?	Yes 🗆	No	
Select one of the fo	llowing char	nel features:						
Channel Feature	Transect (#) Distance from access (m)	Width	ı (m) I	ength (m)	Median D	epth (m)	Max. Depth (m)
RIFFLE		access (III)						
RUN								
POOL								
Channel Feature RIFFLE	Distance from	raccess (m) Wic	ith (m)	Length (m) Medi	an Depth	(m)	Max. Depth (m)
SELECTION ALTERNATION NET THE CAMP	THE CONTRACTOR OF STREET	if so	is there an	obvious cun	rent? I	□ Yes	□ No	
Select one of the fo		inel features:				,		
	Distance from	raccess (m) Wid	ith (m)	Length (m) Medi	an Depth	(m)	Max. Depth (m)
RUN	17) IM	7.04. 1.14.16.18.16.1	73	- vaca	iramawii isaaci	Server Text		Committee of the commit
POOL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					A2 1 //2		are office all the second
	1 1 11	11 (1000()						
bstrate*: (These % Cobble		Gravel	% Sand	20	% Silt 40	% Mud	/Clay	% Bedroo
	*				, ,			
uatic Vegetation	: (Note amo	unt of vegetation of	r algal grov	vth at the ass	sessment site	.)		
none				_				
ter Characterist	i cs*: (Mark a	ill that apply.)						
(101 0114)40101101								
ODOR:		☐ Sewage ☐	Musky 🗀	Chemical	None	□ Oth	er:	
		17		Chemical Gray	None Dilky			iwn (pools
ODOR:		Clear	Green 🗆		☐ Milky		er: BVC	iwn (pools
ODOR:		Clear Sludge	Green Solids	Gray	☐ Milky	Othe	er: BVC er:	iwn (pools
ODOR: COLOR: BOTTOM DEPOSIT: WATER SURFACE I	DEPOSITION:	Clear Sludge Solid	Green Solids Scum	Gray Fine sedimen	☐ Milky ts ☐ None ☐ None	Othe	er: BVC er: er:	own (pools
ODOR: COLOR: BOTTOM DEPOSIT: WATER SURFACE I	DEPOSITION:	Clear Sludge Solid	Green Solids Scum	Gray Fine sedimen	☐ Milky ts ☐ None ☐ None	Othe	er: BVC er: er:	own (pools
ODOR: COLOR: BOTTOM DEPOSIT: WATER SURFACE I mments: Please a us information is not uprehensive understa	DEPOSITION: ttach any add to be used sole ading of water	Clear Sludge Oil itional comments to the conditions. Consequence of a recondition of a r	Solids So	Fine sedimen Foam OT1 ase designation formation is	Milky ts None None None to None	Other	er: Bvc er: er: de a more influence	e ce a
ODOR: COLOR: BOTTOM DEPOSIT: WATER SURFACE I mments: Please a us information is not uprehensive understa	DEPOSITION: ttach any add to be used sole ading of water	Clear Sludge Oil itional comments to the conditions. Consequence of a recondition of a r	Solids So	Fine sedimen Foam OT1 ase designation formation is	Milky ts None None None to None	Other	er: Bvc er: er: de a more influence	e ce a
ODOR: COLOR: BOTTOM DEPOSIT: WATER SURFACE I mments: Please a us information is not apprehensive understatistion on the recreation	ttach any add to be used sole adding of water n use analysis	Clear Sludge Oil itional comments to conditions. Consequent to conditions comment to conditions.	Solids Scum Co this form recreational unently, this inditions that in	Fine sediment Foam T1 ase designation formation is need further a	Milky ts None None None through	Other	er: BVC er: er: de a more influence other use	e ce a e.
ODOR: COLOR: BOTTOM DEPOSIT:	ttach any add to be used sole adding of water n use analysis	Clear Sludge Oil itional comments to conditions. Consequent may point to conditions.	Solids Scum Co this form recreational to ditions that in the checked all	Fine sediment Foam T1 use designation formation is need further a	Milky ts None None None through	Othe	er: Bvc er: er: de a more influence other use	ce a e. is complete.
ODOR: COLOR: BOTTOM DEPOSIT: WATER SURFACE I mments: Please a is information is not aprehensive understat ision on the recreation ase verify that you	ttach any add to be used sole inding of water in use analysis in have completed.	Clear Sludge Oil itional comments to conditions. Consequent may point to conditions.	Solids Scum Co this form recreational truently, this inditions that inchecked all	Fine sediment Foam T1 use designation formation is need further at applicable Date of	Milky ts None None None through	Othe	er: Bvc er: er: de a more influence other use	e ce a e.

	Waterbody ID: 674 Site #: 674_														Date: ZZMAYZOOF Time: JASO 08:13							
	vvaterbo	oay iD:	4-	<u> </u>	d	Site #:	(WBID_		-							Date:	23	4700)	Hme;	08:1	3
	Estimate				4	(m) (he	. –		w bank	width a	nd wate	г)					solved C		1.2	34-	(mg/L)	
	GPS Lo		(taken a		ect 1):	UTM Y:	444	550	0							Diss	solved C)xygen:	88	4	(% sat)	
	UTM X: 050933 UTM Y: 444559 UT																. 1					
	Average	Stream	m Width	ı·	5.		(1	meters)	Leng	th of Su	rvev Se	oment	150) (i	meters)							
	Average Stream Width: 3.1 (meters) Length of Survey Segment: 15() (meters) Water Temperature: 22.07 (°C) 19.3° Water Temperature: 22.07 (°C) 19.3° Otherwise to 22 May survey.																					
	Field	Staff:	JKI	- q	MI	-										Dona	inchil.	D ME	hirane	er 2	2 MAY LI	Horang.
				1 4 W		ever ayu,		30 2 85 0		Trans	ect Cr	oss-Se	ection	e, i p WP	JEST W. AL	200 - 4000 - 200	1:100	7 3 1 7 4 Par (1911/16 11)	on di	THE !	in.	
	01		0:	2	0	3	0	4	0	5	0	6	0	7	0	8	0	9	1	0	1	1
Measurement	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	; Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
. 1	0.3	01	0.1	(1)	0.2	(1)	05	10.1	0.1	0).1	0.1	01	7.10	0	01	0.1	0.1	01	27	0.	01	0
2	07	0.1	(A) (a	Ä	07	0.3	Ma	0.2	09	0 3	MO	M	1	01	(AL	01	05	$\Omega.1$	29	01	06	0.2
_	1	01	11	17 1	10	1/2	12	07		06	10	DI	11	121	11	01	00	100	21	0.1	200	0.2
3	1.5	61	1 1 1	0.0	1 1	00	1.2	12 3	1.	0.5	100	00	7	200		0.2	12	1000	72	0.	17	00.2
4	10	0.1	1.0	01	11	W. Z	1.7	0.3	0.0	0.0	60	0.4	1	1/1/2	1.10	0.4	1.0	W.L	7	<i>U</i> . 1	1,2	0.5
5	1.9	10,6	2.1	102	6.6	W.5	2.1	W. H	3.5	V. 10	2.3	0.0	2.4	0.6	2.1	MH	1.4	10.3	and and			0.2
6	2.3	O.1	2.40	10.3	2+	0.2	1.5	44	4.	Ø. ∀	1,	W.5	3.1	0.5	2,6	4.3	2.1	10.5	3.4	-	here 1 3	0.2
7	2.7	(1).1	3.1	0.2	3.2	0,2	29	04	4.9	0.7	4.9	0.2	3.6	1.4	3.1	0.5	2.5	0.3	5.1	- Charles	2.0	0.2
8	3.1	0.1	3.6	0.2	3.7	0.2	3.3	0,3	5,7	0.9	5.7	0.2		0.3	3.6	DiL	29	0.2	4.	CTANEED FOR LIBERIO	In a	0.2
9	3.5	0.2	A STATE OF THE STA	0.3	4.2	0.3	3.7	0.2	65	O.7	6.5	0.3	4.6	10.3	4.1	0.2	3.3	0.2	4.3	Charlesporty	3.3	0.2
10	3.91	0.2	4.6	0.2	4.7	0.2	4.1	0.	7.3	0.3	7.3	10.3	5.	0.3	4.6	10.1	7	01	4.5	north three	37	0.11
11	14.3	(A.1	5.1	(), N	5.7	0,1	4.5	Ø.	8.1	0.1	8,1	7.1	5.6	0.1	5.1	0.1	14	01		And	4,1	01
12	5.1	0	53		59	0	46	0	8.2	17	8.4	0	5.8	17	5.4	O	53	0	5.7	1	4.8	6
eature Type (riffle, run, or pool)		61	onr	1		*	000	51	00	NI I	00	71	70			1	600	7	ON	1	Oled	
	Transects wit								ing bank.	hw I	1			2)		1		Lugar. N	ixell ^a	4	ali di di	
	GPS location	correspor	nos to Transe	ect v1. Trai	nsects order	ed in upstre	am to down	stream orde	ЭГ.		•											

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0.m.

Signed: May Amous

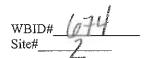
_Date: _22MAY2007

R4C 5-24-07

	674	~
WBID#	- /	
Site#	2	

Data Sheet B - Site Characterization

Date & Time: ZZMA4	2007 153	5 Si	ite Location Desc	cription (e.g., road crossing):	nd Coci
Personnel (Data Collectors):	JRH + TAH				in Rd. Crossing
Current Weather Conditions:	Arvact 35	Fa	acility Name: (ermit Number:	green City WWT	
Weather Conditions for Past			,	Account to the second	
Drought Conditions?: No dro			se III □; Phase	IV □; Unknown 🔼	
	<u> </u>				
te Locations: Location coordinates (un	IVERSAL TRANSVERSE ME	RCATOR PROJ	ECTION, IN METER	35)	
Site GPS Coordinates: UT				443158	
HORIZONTAL COLLECTION ME					AND THE RESERVE OF THE PERSON
	ositioning System (GPS)		~	Interpolat	ion
Static Mode Dynamic Mode (Kinematic)				phic Map or DRG notograph or DOQQ	
Precise Positioning Service				Imagery	
Signal Averaging				ation Other	
Real Time Differential Proces	sina				
HORIZONTAL ACCURACY E		Series See See See See See See See See See S	en Kalaba danan tarah -	NESS COMPANY OF ALL MARKED, STAR WATER SHOWN SHOW	on visual and it individes to be the capture.
	GPS Data Quality	S		Interpolation Da	ta Quality
FOM ±	Meters		Source	Map Scale: 1:24,000 1:100,	000 Other
EPE ± 1	Feet or ±	Meters		±Feet or ±	
PDOP				±reer or ±	IVICIOIS
otos:					
Photo ID#	Photo Purpose and Direct	ion	Photo ID#		se and Direction
(WBID Size###)	(upstream, downstream, other)		(WBID_Site# ##)	- OHI STOPE	ownstream, other)
674-2-1039 do	un Stream			¥	,
674-2-1039 do	Didoe /C.				
		/			
ses Observed*: (Uses a	ictually observed at	time of sur	vey.)		
☐ Swimming	☐ Skin diving	☐ SCUBA	A diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	3 '	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing		None of the above	Other:
Describe: (Include number o Use Interview when conduct		ohoto-documen	tation of evidence	e of recreational uses, etc. U	se Data Sheet D- Recreational
rrounding Condition	S*: (Mark all that promote	or impede recrea	tional uses. Attach	photos of evidence or unusual ite	ems of interest.)
☐ City/county parks	☐ Playgrounds ☐	MDC conserv	ation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks ☐	National fores	sts	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	Steep slopes		☐ None of the above	Other:
Comments: pic#674	1-2-1041				



ndications of	Human Use*: (a	ttach photos))					
Roads	☐ Rope swings	☐ Foot paths.	/prints 🔲 🗅	ock/platform	☐ Livestock	Watering	RV / AT	V Tracks
☐ Camping Si	tes	☐ Fire pit/ring	g 🗆 N	IPDES Discharge	☐ Fishing Ta	ckle 🗆	Other:	
Comments:	671_2-10	147						
PICH	0 1 2 - 1	Aura .						
tream Morph	ology:							
-	ew's Physical Des	criptions: Is	there any wa	ater present at f	his view? □	Yes □ N	ío.	•
Opon out 1.	on orangorous so	•	•	n obvious curr		Yes □ N		
Select one of	the following cha			00 11005 0011	ciit.	105 🗀 10	·	
Channel Featur	e Transect (#) Distances		Width (m)	Length (m)	Median Depth	ı (m) Ma	ax. Depth (m)
RIFFLE		acces	3 (111)					
RUN								
POOL								
		5795E 32 E JIII	216 Na 556			ž . , , , , , , , , , , , , , , , , , ,	2342	
Downstream	View's Physical	Descriptions:	Is there any	water present	at this view?	□ Yes □	No	
			Smith and Charles Continued Billion	e an obvious cu	rrent?	J.Yes 🗓	No	
Select one of Channel Featur	the following cha		Width (m)	Length (En) Med	ian Depth (m)	Ma	x. Depth (m)
RIFFLE	E Distance 1701	maccess (m) = 1	- man (m)		ni) wica	iangeepin (iii)	IVIA	C. Deput (my a a
RUN			A B Y	en er en			10	
POOL	PRICE TO AND ART OF		Legit Agranda Agran	Commission of the Commission o	Tanharan et a a a a a a a a a a a a a a a a a a	THE PARTY OF THE	to the spanish supplies to	
uhstrato*: (T	hese values should	ladd un to 10	n%)					
		% Gravel	(n) % Sar	ıd	% Silt 47)	% Mud/Cla	ıy	% Bedrock
nuatic Vogot	ation*: (Note amo	unt of vegete	V	growth at the a	concernant cita	`		
						•)		
6	of Site 1	raa cy	State	> VKGR 1	~~!) - / }			
ater Charac	teristics*: (Mark	all that apply.	.)					
ODOR:		☐ Sewage	☐ Musky	☐ Chemical	None	Other:		
COLOR:		Clear	☐ Green	☐ Gray	☐ Milky	Other:		
BOTTOM DE	POSIT:	☐ Sludge	☐ Solids	Fine sedime	ents 🗆 None	☐ Other:		
WATER SURI	FACE DEPOSITION:	☐ Oil	Scum	☐ Foam	☐ None	Other:		
								1
omments: Pl	ease attach any ad	ditional comn	nents to this f	form. (1) IN	XIIX (I)	1	. Ln	backux
his information	is not to be used sol	ely for remova	l of a recreation	nal use designat	ion but rather is	to provide a	more	
	derstanding of water							
cision on the re-	creation use analysis	but may point	to conditions	that need further	analysis or that	affect anoth	er use.	
ease verify th	at you have comp	leted all sect	ions, checke	d all applicabl	e boxes and t	hat everyth	ing is co	mplete.
irvevor's Sign	ature: <u> </u>	cs tra	btk)	Date of	f Survey: 22	LMAY	200	F
	7 7		/ n	tion: Field	, ao	<u> </u>		
rganization:A	-3/ NIEC	Wate	•		i ikin			
February	16, 2007	(1) UL C.	5-1	5-07				

																. 6.,2000		- Dissess	المشاعل الم		us subject on	graves
	Waterb	ody ID:	676	4		Site #:	670	1_2	-							Date: (D		Dissol			#535 08.26	
	Estimat	ted Cha	nnel Inc	cision:	-	(m) (he	(WBID_ eight bet		w bank	width a	nd wate	r)				Diss	スク solved (Dxygen:	8.6		08.2 (mg/L)	0
	GPS Lo	ocation (UTM X:	(taken a <u>ం ్ స</u>	at transe	ct 1):	UTM Y:	4443 ata Qua	5158	- 1	I						Diss	solved (Oxygen:	93.	3	(% sat)	
	ı				_						(feet)	•	151	7			Specifi	c Cond:	310	.0	(µS/cm))
	Average Stream Width: 6.2 (meters) Length of Survey Segment: 150 (meters) (20x average stream width)															Water Temperature: 19.5 (°C) (°C) (Changed DO membrane on 22 MAY PM				>.#.A		
	Field Staff: JRH+TAH Transect Cross-Section															O Changed DO membrane on 22MA returned to size on 22mm Am.					r*1	
	An July Self	Pline u. 1.		+4 LTT	a enlik					Trans	sect Cr	oss-Se	ction				M	a la company	ow, v.e.e.	asibor, r		14443
	0	1)2		3		4	Distance	5	Distance	6	0 Distance	7	Distance	8	Distance	9	1(Distance)	1 Distance	1
Measurement	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	1	Depth (m)	(m)	Depth (m)	(m)	Depth (m)	1	Depth (m)		Depth (m)	4. 1	Depth (m)		Depth (m)
1	α	0.1	O.	0.2	0.9	0.1	0.6	0.1	0.7	0.1	0	Ø.	0.4	\emptyset .	0.3	(A. L	0.4	0.1	1.2	0.1	0,3	0.1
2	04	0.3	10.4	04	A STATE OF THE STA	and the same of th	M.7	Openin Epidie	0.9	0.1	01	0.3	0.7	Û.	Cartydorums 19.	0.2	de la contraction de la contra	10.1	1.5	0.1	1.0	0.2
3	198	0.4	10.8	714	1.3	- Control of the Cont	77.8	- Approximately and the second		0.1	04	0.3	1.0	0.2	19	0.2	1.8	0.1	1.8	0.1	1.7	0.2
4	1.7	04	12	0.4	1.5		09	3	1.3	<0	100	0.2	1.3	0.1	27	0.2	2.5	0.3	2.1	0.2	24	12.2
5	1.6	0.3	1.6	10.3	1.7	the management of	1.77	and the same of th	1.5	<001	V18	0.1	1.0	<0.1	3.5	04	3.2	0.4	2.4	0.2	3.1	7.2
6	2.0	03	2.0	19/3	(9	50, passymithin		Weekland	1,7	M.I	1.0		19	0.1	4.3	06	39	1.6	2.7	0.2	3.8	10.1
7	2.4	0.3	2.4	0.2	-2.1	At a separate and a s	1.2	Picitic Dicassina	1.9	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.2	The same of the sa	2.2	0.2	5.1	0.5	4.6	0.6	3.0	0.2	4.5	m. (
8	2.8	0.3	2.8	01	2.3	Message Appare	1.3	Chestra-1913-bases	2.	*SOCOMMENT INC.	Tractions:	Meta Chinasa (A)	2.5	0.1	5.9	0,4	5.3	0.6	3,3	Ø.	5.2	0.1
9	3.2	0.2	3.2	0.2	2.5	SECONDARIA SE	J. J. Santa	P)ROW WEIGHT CO.	2.3		1.6	CONT.	2.8	0.1	6.7	0.3	6.0	0,4	3.6	<0.	5.9	0.1
10	3.6	0.2	3.6	10.1	2.7	A CONTRACTOR OF THE CONTRACTOR	1.5	S CANADARANA N	2.5	- Administration by	1.8		3.	0.	7.5	0.2	6.7	0.2	39	0.1	6.6	0.2
11	4.Q	0.1	4.0	10.	29	0.1	1.10	The second secon	2.7		2.0		3,4	0.1	8.3	0.1	TH	O.L	4.21	0.1	7.3	0.1
12	5.4	Ø	4.5	Ø	6.1	0	6.2	0	6.0	(7)	4.8	0		0	8.7		8.2	0	6.0		8.2	
Feature Type (riffle, run, or pool)	200	201	000		DO	O I	ri	in	VI	(4)	ru	Ń	ru	n	DOC)	00	01	ru	0	ĐΘ	21
Notes:	Transects v						níshing on ri								- See		aldyn, and the				100	

Transects in order of up to downstream

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

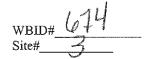
Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient). Measurement 12 distance = entire wetted width distance and depth = 0.1m

Signed: My Alabas,

Date: 22 MAY 2007

And 5-24-07

Date & Time: 23	MAY ZODIF	0845	Site Location	Descrip	tion (e.g., road crossing):	
	ectors): JRH + TA	H	DOWNST	TOCEY	of Talent Ke	d. crossing
	ditions: pvercast, a		Facility Name Permit Number	e: Gr	een City WEST	
Weather Conditions t	*			, , , , ,		
Drought Conditions?:	: No drought □; Phase I □	l: Phase II □: F	Phase III □: Pl	hase IV	□: Unknown 🗸	
		, , , , , , , , , , , , , , , , , , , ,				
e Locations:	TES (UNIVERSAL TRANSVERS	SE MERCATOR PR	ROJECTION, IN M	METERS)		
Site GPS Coordina	tes: UTM X: 0≤09 %(80	Y: •	4439	913 (15	5T)
	CTION METHOD (Indicate the me		mine the locationa	al data.)	Contraction of the Contraction o	the first of the second
Static Mode	Global Positioning System (G	SPS)	Tan	- a a ranhia	Interpolation	<u>1</u>
Dynamic Mode (Kiner	matic)				Map or DRG ograph or DOQQ	
Precise Positioning S				tellite Ima		
Signal Averaging				erpolation	-	
Real Time Differential	I Processino					3
	RACY ESTIMATE		TWEN STATES	ST STEDS	. U U. 15. 15. 5. 11. 15. 15. 15. 15. 15. 15.	akandara araba kalenda
The second secon	GPS Data Quality				Interpolation Data	Quality
FOM	±Meters	5	So	ource Ma	p Scale: 1:24,000 1:100,00	00 Other
EPE	± Feet or ±	Meters			±Feet or ±	Motore
PDOP						ivieters
otos:						
Photo ID#	Photo Purpose and D	Direction	Photo II	D#	Photo Purpose	and Direction
(WBID Site# ##)	(upstream, downstream,	other)	(WBID Site#		SLOPE, DOWN RE	
W4-3-104						
	SERME, INFER	Ri				
as Ohsanjad*: (Uses actually observe	d at time of s	meron 1			
,			¥/			
☐ Swimming		LI SCU	JBA diving		☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boat	ting		☐ Wading	Rafting
☐ Hunting	☐ Trapping	☐ Fish	•		🗷 None of the above	Other:
	umber of individuals recreaticonducting interviews.)	ing, photo-docun	nentation of evi	idence of	frecreational uses, etc. Use	Data Sheet D- Recreational
rrounding Cond	ditions*: (Mark all that pro	mote or impede rec	creational uses. At	attach phot	tos of evidence or unusual item	s of interest.)
☐ City/county park		☐ MDC cons			☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National fo	orests]	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	Steep slope	es	1	☐ None of the above	Other:
Comments:	74-3-104	,				



Data Sheet B - Site Characterization

	Rope swings	☐ Foot paths	/prints 🔲 D	ock/platform	☐ Livestock V	Vatering	☐ RV / ATV Tracks		
☐ Camping Sites		☐ Fire pit/ring	g 🗆 N	PDES Discharge	☐ Fishing Ta	ckle	图 Oth	ier: Tircs	
Comments:		Ma.							
pic# 674	_5-104	5							
eam Morpholog	11/*								
pstream View's		wintions. To	there entry	tar procent at th	in velove?	Voc. 🗆	l No		
pstream view s	i nysicai Desc	•	•	•					
select one of the	following chan			n obvious curre	nt?	res 🗀	No		
Channel Feature	Transect (#)) Distanc	ce from \	Width (m)	Length (m)	Median D	epth (m)	Max. Depth (m)	
RIFFLE		acces	ss (m)						
RUN									
POOL									
	Andrew State of the Control of the Control	and the Charles Section 1 in 15 like Section	etalata (N. A. A. A. Sentill		Marie S. Challand and Land Street Street				
ownstream Vie	w's Physical D	escriptions:	Is there any	water present a	t this view? [□ Yes	□No)	
and the second of the second o	200 m m m		If so is there	an obvious cur	rent?] Yes	□ No		
			PERSONAL STATE	2 (C) 52(24(24)) 2 ()	ar que en la companya de la companya	1.7	17		
select one of the			S:						
Channel Feature	following char Distance from		Width (m)	Length (n	n) Medi	an Depth ((m)	Max. Depth (m)	
Channel Feature RIFFLE					n) . Medi	an Depth ((m)	Max. Depth (m	
Select one of the Channel Feature RIFFLE RUN POOL				T 250	In a street of a second	an Depth (m)	Max. Depth (m)	
Channel Feature RIFFLE				T 250		an Depth ((m)	Max. Depth (m)	
Channel Feature RIPFLE RUN POOL ostrate*: (These	Distance from	add up to 10	Width (m)	7 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CASA CASA CASA CASA CASA CASA CASA CASA				
Channel Feature RIFFLE RUN POOL	Distance from	add up to 10	Width (m)	7 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		an Depth (
Channel Feature RIPFLE RUN POOL ostrate*: (These	values should	add up to 10	Width (m) 00%.) 95 % San	d	% Silt	% Mud/			
Channel Feature RIFFLE RUN POOL Ostrate*: (These % Cobbi	values should	add up to 10	Width (m) 00%.) 95 % San	d	% Silt	% Mud/			
Channel Feature RIFFLE RUN POOL Ostrate*: (These % Cobbi	Distance from values should e 5 % n*: (Note amore)	add up to 10 Gravel unt of vegeta	Width (m) 00%.) 95 % San	d	% Silt	% Mud/		Max. Depth (m)	
Channel Feature RIFFLE RUN POOL Ostrate*: (These % Cobbi	Distance from values should e 5 % n*: (Note amore)	add up to 10 Gravel unt of vegeta	Width (m) 00%.) 95 % San	d	% Silt	% Mud/			
Channel Feature RIFFLE RUN POOL Ostrate*: (These % Cobbi	Distance from values should e 5 % n*: (Note amore)	add up to 10 Gravel unt of vegeta	Width (m) 00%.) 95 % San	d	% Silt	% Mud/	/Clay		
Channel Feature RIFFLE RUN POOL Ostrate*: (These % Cobbi	Distance from values should e 5 % n*: (Note amore)	add up to 10 Gravel unt of vegeta	Width (m) 00%.) 75 % San ation or algal	d growth at the as	% Silt sessment site.	% Mud/	/Clay er:		
Channel Feature RIPFLE RUN POOL Ostrate*: (These % Cobbl Latic Vegetatio LODOR: COLOR:	values should e	add up to 10 Gravel unt of vegeta	Width (m) 00%.) 75 % San ation or algal	d growth at the as	% Silt sessment site. Mone	% Mud/	/Clay er:		
Channel Feature RIFFLE RUN POOL Ostrate*: (These % Cobbl Jatic Vegetatio NONE ter Characteris ODOR:	Distance from values should e 5 % n*: (Note amount tics*: (Mark a	add up to 10 Gravel unt of vegeta	Width (m) 00%.) 75 % San ation or algal Musky	d growth at the as	% Silt sessment site. Mone	% Mud/	/Clay er:		

	Waterbody ID: 674 Site #: 674-3 (WBID_Site#) Estimated Channel Incision: 4 (m) (height between low bank width and water) GPS Location (taken at transect 1): UTM X: 0509868 UTM Y: 4439913 Horizontal Accuracy Estimate (GPS Data Quality): +/- +/-												Dissolved Oxygen: 324.6									
		wasan in			777			a a wa		CH TO LINE OF ATT SAME		and a track						`.}≝u` _^`		M. se N		
Measurement	Distance (m)	Depth (m)	Distance	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance	Depth (m)	Distance	Depth (m)	Distance	B Depth (m)	Distance	Depth (m)	Distance (m)	Depth (m)	Distance	Depth (m)
1	1.2	, , ,	0.2	0.1	. 6	0.1	0.1	ا . ا	0.3	0.1	2.1	0.1	1.0	0.1	0.6	0.1	9.0	0.1	0.2	0.1	0.2	0.1
2	General Control	0.1	0.5	0.1	1.8	0.1	0.5	0.2	0.7	0,1	23	0.1	1.3	0.1	0.8	0.1	San	0.1	0.3	5. [0.4	0.1
3	6.6	0.2	0.8	5.	2.0	0.1	0.9	0.1	4,	0. }	2.5	0.1	Andrew Company	0.2	1:0	0.1	6.2	0.1	4,0	-	0.6	40.1
4	3,3	0.1	a destrict	# .**	2.2	0.1	1.3	۷٥.١	1.5	<0.4	27	0.1	1,9	0.2	1.2	0.2	9.3	0,1	0.5	0.1	0.0	20.1
5	4,0	0.1	1.4	0.2	2.4	0.1	1,7	0.1	1.9	0.1	2.1	0]	2.2	0.2	Turkeyes To the control of the contr	0.2	9,4	0.1	0.6	0.1	1.0	<0.1
6	4.7	<0.1	1.7	0.1	2.6	0.2	2.)	0.)	2.3	0.1	17 L 3	0.2	2.5	0.}	1.6	0.2	9.5	0.1	0.7	۷٥.١	1.2	0.1
7	5.4	⟨٥.١	2.0	0,2	2.8	0.2	2.5	0.1	2.7	0.1	3.3	0.1	2.8		, ý	0.2	9,6.	0,1	0.8	0.1	And section in the section is a section in the sect	0.2
8	6.	0.1	2.3	Q.)	3.0	0.1	2.9	0.2	3.1		3,5	The sales	3.1	0.2	2.0	0.2	2	0.1	0,9	201		0.1
9	6.8	0.1	2.6	0.1	32	0.1	3.3	0.2	3.5	0.2	37	0.1	3.4	0.2	2.8	0.2	94	0.	1.0	<0.1	1.8	
10		0.2	2.9	0.1	3.4	0.1	3.7	0.3	3.9	0.2	3.9	0.1	3.7	in the second	De hafe	0.1	Separate Sep	A	1.	0.1	2.0	0.1
11	8.2	0.1	32	0.1	3.6	0.1	4.1	D.)	4.3	0.	4.1	0.1	4.0	0, 1	2.6	0.1	10.0	0.1	1.2	0.1	2.2	0.1
12 Feature Type (riffle,	8.9	\mathcal{U}	3.6	L(<i>()</i>	4.2	(1)	4.6	1	5.8	(1)	4.6	0	4.5		3.3	(2)	10.5	(1)	11.3	10	4.9	
run, or pool)	YU	1	ru	Ó	Yun	1	run	34	141	1	1 U	1	VIA	ń	(U)	1	1a	1	TUI	ń	lur	1

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1 $\,$

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0m.

Signed: Amgel Mht.

Date: ZEMAYZOO7

5-25-07

WBID#	674
Site#	4

Data Sheet B - Site Characterization

Data & Time: 0244	10.0	wir	Si	te Location Desc	ription (e.g., road crossing):	
Date & Time: 23MAY		•	- 1			1.000
Personnel (Data Collector			E	DWASTYEAM	of Ivory Rd (7053119
Current Weather Condition	ons: Augreast A	Jnoc.	Pe	ermit Number:	green City WWTE	V
Weather Conditions for P	. 10 1	rain		on running.	70 0112135	
Drought Conditions?: No	drought []: Phase I [: Phase II [D: Phas	se III □: Phase i	IV □: Unknown 🔽	
		,	,	, 111100 I	<u> </u>	
Site Locations: Location COORDINATES	(UNIVERSAL TRANSVERS	SE MERCATOR	RPROJE	ECTION, IN METER	(S)	
Site GPS Coordinates:	UTM X: 0510465	····		Y: 443	7207 (15 T)	
HORIZONTAL COLLECTION			etermine			State of the state
Static Mode	al Positioning System (G	SPS)		Topogram	Interpolation of DRG	on
Dynamic Mode (Kinematic	2)		+		otograph or DOQQ	
Precise Positioning Service				Satellite		
Signal Averaging				Interpola	tion Other	
Real Time Differential Pro	cessing	12112 111 11112 11112 11112				
HORIZONTAL ACCURAC	Y ESTIMATE				DASSELTING CONTRACTOR TO THE	
	GPS Data Quality	***************************************			Interpolation Dat	a Quality
FOM ±				Source	Map Scale: 1:24,000 1:100,0	
EPE ±	17 Feet or ±	Meters	3		±Feet or ±_	Motoro
PDOP						ivieters
Photos:						
Photo ID# (WBID Site# ##)	Photo Purpose and D			Photo ID# (WBID Site# ##)		e and Direction
0674-4-1047 UP		outer ;		(WBIO SRCH ##)	(upsiream, do	wnstream, other)
No.24 4 Aug S.	in the contract of the					
Obsit 4 was pour	Man KLAPA					
0674-4-1048 Dou 0674-4-1049 BRI	DGE, WORLY RD.					
0674_4_1050 SCOPE	, RT BANK, DOLLARS	REM				
Uses Observed*: (Use	es actually observed	d at time o	f surv	vey.)		
☐ Swimming	☐ Skin diving		CUBA	diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking		Boating		□ Wading	☐ Rafting
☐ Hunting	☐ Trapping		Sishing		None of the above	Other:
		ng, photo-do	cument	ation of evidence	of recreational uses, etc. Us	e Data Sheet D- Recreational
Use Interview when cond	ucting interviews.)					
Surrounding Condition	ns*' (Mark all that pror	note or impede	recreati	ional uses Attach n	shates of evidence or unucual iter	ms of interest \
☐ City/county parks	☐ Playgrounds	☐ MDC co			☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ Nationa		ts	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence		lopes		☐ None of the above	Other:
Comments:						
			_			

WBID#	674
Site#	4

Data Sheet B - Site Characterization

	Rope swings	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
Camping Sites		☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle	☐ Other:
Comments:	11212				
eam Morpholo					
Upstream View's	s Physical Des	criptions: Is there	any water present at th	nis view? 🗆 Yes 🏻] No
		,	there an obvious curre	ent?	l No
Select one of the Channel Feature	following cha		Width (m)	Length (m) Median I	Depth (m) Max. Depth (m)
	Transect (1	access (m)	Widdi (III)	Length (III) Median I	Copul (III) Max. Deptil (III)
RIFFLE					
RUN					
POOL					
A PIL	CONTRACTOR			The state of the s	
Downstream Vie	w's Physical l	Descriptions: Is the	ere any water present a	nt this view? ☐ Yes	□ No
		If so,	is there an obvious cur	rent? 🗆 Yes	□ No
Select one of the					
Channel Feature RIFFLE	Distance from	n access (m) Wid	ith (m) Length (r	n) Median Depth	(m) Max. Depth (m)
RUN	AND THE SECOND STREET				The second secon
POOL	Of the control governor	20 July 10 Jul	The state of the second	Service and the service of the servi	
San San Company Company	S I would address the modern of S	Literature of the state of the	学V=1 Y	<u></u>	
		d add up to 100%.)			
% Cobb	le 5 9	% Gravel 85	% Sand ()	% Silt % Mud	/Clay % Bedr
uatic Vegetatio	n*: (Note amo	ount of vegetation o	r algal growth at the as	ssessment site.)	
N IN IF					
NONE					
		-11 47-4 } \			
	stics*: (Mark	an that apply.)			
	stics*: (Mark		Musky Chemical	None □ Oth	er:
ter Characteris	stics*: (Mark	☐ Sewage ☐	Musky	None Oth	
ter Characteris		☐ Sewage ☐		☐ Milky ☐ Oth	er:
oter Characteris ODOR: COLOR:	T:	☐ Sewage ☐ ☐ ☐ Clear ☐ ☐ Sludge ☑	Green Gray	☐ Milky ☐ Oth	er: er:
oter Characteris ODOR: COLOR: BOTTOM DEPOSI	T:	☐ Sewage ☐ ☐ ☐ Clear ☐ ☐ Sludge ☑	Green □ Gray Solids ▼ Fine sedimer	☐ Milky ☐ Oth	er: er:
odor: COLOR: BOTTOM DEPOSI WATER SURFACE	T: E DEPOSITION:	☐ Sewage ☐ ☐ ☐ Clear ☐ ☐ Sludge ☑	Green □ Gray Solids ☑ Fine sedimer Scum □ Foam	☐ Milky ☐ Oth	er: er:
odor: COLOR: BOTTOM DEPOSI WATER SURFACE	T: E DEPOSITION: attach any add	Sewage Clear Sludge Oil ditional comments t	Green Gray Solids Fine sedimer Scum Foam o this form.	☐ Milky ☐ Oth This ☐ None ☐ Oth None ☐ Oth	er: er: er:
odor: COLOR: BOTTOM DEPOSI WATER SURFACE mments: Please	T: E DEPOSITION: e attach any add	Sewage Clear Sludge Oil ditional comments to	Green □ Gray Solids ☑ Fine sedimer Scum □ Foam	☐ Milky ☐ Oth Mone ☐ Oth None ☐ Oth on but rather is to provide	er: er: er:
odor: COLOR: BOTTOM DEPOSI WATER SURFACE mments: Please his information is not apprehensive underst	T: E DEPOSITION: attach any ado to be used sol tanding of water	Sewage Clear Sludge Oil ditional comments to ely for removal of a reconditions. Consequents	Green Gray Solids Fine sedimer Scum Foam o this form. ecreational use designation	Milky Oth	er: er: er: de a more y influence a
odor: COLOR: BOTTOM DEPOSI WATER SURFACE mments: Please his information is no aprehensive underst ision on the recreat	T: EDEPOSITION: e attach any add to to be used sol tanding of water ion use analysis	Sewage Clear Sludge Citional comments to ely for removal of a reconditions. Consequent to conditional point to conditional comments to ely for removal of a reconditions.	Green Gray Solids Fine sedimer Scum Foam o this form. ecreational use designation is ditions that need further a	Milky Oth Mone Oth None Oth None to provide a not intended to directly analysis or that affect an	de a more vinfluence a other use.
odor: COLOR: BOTTOM DEPOSI WATER SURFACE mments: Please is information is no aprehensive underst ision on the recreat ase verify that ye	T: E DEPOSITION: e attach any add to to be used sol tanding of water ion use analysis ou have comp	Sewage Clear Sludge Citional comments to ely for removal of a reconditions. Consequent to conditional point to conditional comments to ely for removal of a reconditions.	Green Gray Solids Fine sedimer Scum Foam o this form. ecreational use designation in the sediment of the second in the secon	Milky Oth None Oth None Oth None on but rather is to provide and intended to directly analysis or that affect and the boxes and that ever	de a more rinfluence a other use. ything is complete.
odor: COLOR: BOTTOM DEPOSI WATER SURFACE mments: Please his information is no aprehensive underst ision on the recreat	T: E DEPOSITION: e attach any add to to be used sol tanding of water ion use analysis ou have comp	Sewage Clear Sludge Citional comments to ely for removal of a reconditions. Consequent to conditional point to conditional comments to ely for removal of a reconditions.	Green Gray Solids Fine sedimer Scum Foam o this form. ecreational use designation is ditions that need further a checked all applicable Date of	Milky Oth Mone Oth None Oth None Oth on but rather is to provide anot intended to directly analysis or that affect and the boxes and that ever	de a more other use. ything is complete.
ter Characteris ODOR: COLOR: BOTTOM DEPOSI WATER SURFACE mments: Please is information is no aprehensive underst ision on the recreat	T: E DEPOSITION: e attach any add to to be used sol tanding of water ion use analysis ou have comp	Sewage Clear Sludge Climical Comments to the conditions. Consequence but may point to conditions, consequence conditions.	Green Gray Solids Fine sedimer Scum Foam o this form. ecreational use designation in the second intensity, this information is ditions that need further a checked all applicable	Milky Oth Mone Oth None Oth None Oth on but rather is to provide anot intended to directly analysis or that affect and the boxes and that ever	de a more rinfluence a other use. ything is complete.

	Matarh	ody ID:	67	1		Sito #	0674	14								Date	02 M	Disso	Ived O		09:35	
	vvalert	iouy iD.	/	<u> </u>			(WBID_									6)				rante.	<u> 111 : 32</u>	<u></u>
			nnel Ind				. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ween lo	w bank	width ai	nd wate	r)				Diss	solved (Oxygen:	9.1		(mg/L)	
	ļ	UTM X:	(taken a _0570	1465				7207		7						Diss	solved (Oxygen:	100.	6	(% sat)	
		Horizor	ntal Acc		_	(GPS D	ata Qua	ality):	+/-	<u>T</u>	(feet)	-					Specific	c Cond:	338	, 2	(µS/cm)
	Averag	e Strea	m Width	1: 1	.5_		()	meters)		th of Su			156) (1	meters)					_	(%C)	
	Field	d Staff:	S.J	IRH;	2416	Total		eye-anna	(20x ave	erage stre	eam widt	n)				vvate (1) rera	i iempi Librati	erature:	1166. 8	eadrins	(U) Roshi	mak
	: Tation	ئىس ئەدىل ئ		4" 2.25	6 1 , Short		TE TEXT of a	20.73. i		Tranc	ect Cr	oss-Se	ection		£ . 5 Juk			* -	丁寅 飞丝.	a Arri		
	· · · · · · · · · · · · · · · · · · ·	** }})1	0	12	n : 'j.)3	0	14	<u> </u>	្សា <u>រុ</u> ៨អន)5	9.11 - 2.2	055-5 <u>5</u>	5	7	0	Я		<u>* (#: 0</u>)9	1	0	1	1
Measurement	Distance (m)	Depth (m)	Distance	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance	Depth (m)	Distance	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
Measurement	0.2		0.5	(n)	2.8	O. \	1.2	O.)	۵4	().	5.5	0,1	0.2	O. I	0.1	Q. I	1.5	O. I	0.5	O. I	0.2	ا ، ن
2	0.8	0.1	1.2	40.1	3.4	x	1.9	0.1	11	0.1	5.6	0.1	0.6	0.2	0.8	0.2	19	0.1	, ,	0.1	0.9	0.1
2	1.4	0.2	1.9	<0.1	4.0	0.1	2.8	V)	1.8	40.1	5.7	0.1	1.0	0.2	1.5	0.2	2.3	40.1	1.7	0.2		0.2
د ام	2.0	n. i	2.6	40,1	4.6	0.1	3.5	1 V · I	2.5	40.1	5.8	0.2	1,4	0.3	2.2	0.2	2.7	<0.1	2.3	0.1	2.3	0.2
4	2.4	(0.1	3.3	0.1	5.2	7	4.2	0 1	3.2	∠0.1	5.9	0.2	1 8	0.3	2.9	0.2	3.1	<0.1	2.9	0.1	3.0	0.1
5	32	40.1	4.0	0.1	5.8	0.2		0.1	3.9	20.1	V 0	0.2	2.2	0.4	3.8	0.2	3,5	0.1	3.5	0.1	3.7	∠0,l
7	3.8	40.1	42	0.2	64	0.2	5.8	0,1	4.6	40.1	2	0.2	2.6	0.3	4.5	0.2	3.9	0.1	4.1	0.2	44	40.1
, ,	4,4	0.1	5.4	0,2	7.0	0.2	6.5	0.1	5.3	40.1	6.2	0.7	3.0	0.4	5.2	0.2	4.3	0.2		0.2	5.1	n.l
0	5.0	0.2		0.3	7.6	0.2	7.2	0.1	6.0	(0.1	5.3	0.2	3,4	0.3	5.9	0.2	1.2	0.2	5.3	0.2	5.8	0.2
10	I		6.8	0.2	8.2	0.2	7.7	01	6.7	<0.1	04	0.2		0,3	6.8	0.2	5.1	0.1	5,1	0.1	6.5	0.2
10	6.2	0.2	7.5	0.1	8.8	0,1	8.8	0.1	7.4	0.1	6.5	0.1	4.2	0.1	7.5	0.1	5.5	0.1	6.5)	7.2	0.1
	1 -	8	8.6		9.0	9	8.6	9	8,4	2	7.4	a	5,4	Ø	7.5	i.	6.2	è	7.2	a	7.4	Ø
	V. 1		D0	' ;	200		Doo 1	295	(U)		run	Last F	DOY	esappe.	YUY		CU:		run		M	1
	Transects w	ill be measi						tht descendi		1	\$ 4×7 \$ 1	1	6000E	(1	1 10,	1	* ",	· ·	B PLEE.		£ 3-1	` lm

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance prentire wetted width distance and depth = 0m.

WBID#	674	
Site#	Air Co	

Data Sheet B - Site Characterization

Г					·. Y			
L	Date & Time: 23 /	1AY 2007, 1:00	A				ription (e.g., road crossing):	a1
	Personnel (Data Collec	tors): JRH MH		6	ROWI	rstrea	m of Windsong.	KA.
	Current Weather Cond	itions: Overcast 7	75°F	Fa Pe	acility N ermit Nu	lame: 🥑 umber: 🌈	green (ity wi	UTF
	Weather Conditions for							
	Drought Conditions?:	No drought □; Phase I □	l; Phase II	□; Pha	se III 🗆	; Phase I	V □; Unknown 🔠	
 Sié.	E Locations:						-	
_		ES (UNIVERSAL TRANSVERS	E MERCATO	R PROJI	ECTION,	IN METER	S)	
	Site GPS Coordinate	s: UTM X: 0511863			3	Y: 443	4695 (IST)	
-	HORIZONTAL COLLECT	ION METHOD (Indicate the me		determine	e the loca	tional data.)	
-	Static Mode	obal Positioning System (G	iPS)			Topogram	Interpolation Interpolation Map or DRG	n
-	Dynamic Mode (Kinema	atic)					otograph or DOQQ	
Ī	Precise Positioning Ser					Satellite I		
	Signal Averaging					Interpolat	tion Other	
ŀ	Real Time Differential F	Processina		+				
-		ACY ESTIMATE			A PS PLY	.a v ⁷⁷ 1.884 2.75	Company of the second of the passes with the	
		GPS Data Quality		again a			Interpolation Data	Quality
	FOM	±Meters	;			Source	Map Scale: 1:24,000 1:100,0	
	EPE	± 19 Feet or ±	Mete	rs			±Feet or ±_	Matara
	PDOP							ivie (ci 5
Ph	otos:							
	Photo ID# (W8ID Site# ##)	Photo Purpose and D				o ID# Site# ##)		e and Direction
	067-5-1051 UP	······································				-	(aparessi so	The test of the second
	0674_5_1052 P							
		LOPE, RT BANK, DO	and Tresonn					
	0674-5-1051							
	00/403 103	the Labitationals R'TY						
Us	es Observed*: (U	ses actually observed	d at time	of sur	vey.)			
	☐ Swimming	☐ Skin diving		SCUBA	diving		☐ Tubing	☐ Water skiing
	☐ Wind surfing	☐ Kayaking		Boating	5		☐ Wading	☐ Rafting
	☐ Hunting	☐ Trapping		Fishing			None of the above	Other:
			ng, photo-d	ocument	tation of	evidence	of recreational uses, etc. Use	Data Sheet D- Recreational
	Use Interview when co	inducting interviews.)						
Sui	rrounding Condi	tions** (Mark all that pror	note or impe	de recreat	ional uce	e Attach n	shotos of evidence or unusual iten	ac of interact)
	•		l					
-	☐ City/county parks	☐ Playgrounds	□ MDC	conserva	ation lar	nds	☐ Urban areas	☐ Campgrounds
-	☐ Boating accesses	State parks	☐ Nation		sts		☐ Nature trails	☐ Stairs/walkway
	☐ No trespass sign	☐ Fence	Steep	slopes			☐ None of the above	☐ Other:
	Comments:							
	•							

WBID#	674
Site#	5

February 16, 2007

Field Data Sheets for Recreational Use Stream Surveys

Indications of	Human Use*:	(attach pl	notos)						
Roads	☐ Rope swings	☐ Foo	t paths/prints	Do	ck/platform	Liv	estock Wat	ering 🗆 R	V / ATV Tracks
☐ Camping S	Sites	☐ Fire	pit/ring	□ NP	DES Discharge	☐ Fis	shing Tackle	e 🗆 o	ther:
Comments:		,						'	
Stream Morpl Upstream V	nology: iew's Physical D	escription	is: Is there	any wat	er present at th	nis viev	v? □ Ye	s 🗆 No	
Select one o	f the following ch	nannel fea		there an	obvious curre	ent?	□ Yes	s 🗆 No	
Channel Feat			Distance from access (m)	W	idth (m)	Length (m) M	edian Depth (n	n) Max. Depth (m)
RIFFLE			access (111)						
RUN			,						
POOL									
S		: 4 <u>Ma³³ </u>	5155475PREEES	, wh		10.00		in 1 1 . 1 . 1	-
Downstream	n View's Physica	l Descript	tions: Is the	re any v	water present a	at this v	iew? 🗀 '	Yes □ N	lo
			If so, i	s there	an obvious cu	rrent?		Zes □ N	0
Select one o	f the following cl		tures:	. 124 1.4	10 T	E.	~,, 1, 1, 3, 31	ere de service	
Channel Feat	ire Distance fi	rom access (m) Widt	th (m)	Length (1	m)	Median	Depth (m)	Max. Depth (m)
RIFFLE			swax betiebad in			- 1 - 17 60.		ASSIST FOR ALL	
RUN	All		Medically of the Williams of	as a second of the second of t	The state of the s	and and			
POOL	The different for the state of	Hade to my subject to	179	(artist)		15 10			
Substrate*: (These values shou	ıld add up	to 100%.)						
	Cobble 5	% Gravel	95	% Sand		% Silt	9,	% Mud/Clay	% Bedroc
Aquatic Vege	tation*: (Note ar	nount of v	egetation or	algal g	rowth at the as	ssessme	ent site.)		
NO	VE								-
Water Charac	teristics*: (Mar	k all that a	ipply.)						
ODOR:		☐ Se	wage 🗆	Musky	☐ Chemical	Ø	None [Other:	
COLOR:		□ cı	ear 🗆	Green	☐ Gray		Milky I	Other: BK	NWOS
BOTTOM DI	EPOSIT:	□ Sl	udge 🗵	Solids	Fine sedime	nts 🗆	None [Other:	
WATER SUF	FACE DEPOSITION	1: □ Oi	1	Scum	□ Foam	Þ	None [Other:	
Comments: P	lease attach any a	dditional	comments to	this fo	rm.				
comprehensive u	n is not to be used s nderstanding of wa	ter conditio	ns. Consequ	ently, th	is information is	s not int	ended to d	irectly influ	ence a
decision on the re	ecreation use analys	sis but may	point to cond	litions th	at need further	analysis	or that aff	ect another	use.
Please verify t	hat you have com	pleted all	sections, cl	hecked	all applicable	boxes	and that	everythin	g is complete.
Surveyor's Sign	nature:	en A-	Halp.	3	Date of	Survey	23 ,	MAY 20	07-
Organization:	AES/ME	C WAT	ER	Positi	on:	LD]	ECH.		
	•		AL L	7	gram opine gring	A. (1)			

	l		سه د	ung /												Walley 21 South August			lved O	xygen	€ अक्षा-1975	5 1 50 J
	Waterb	ody ID:	6	fr hef		Site #:										Date:	23 M	ar en	7	Time:	11:00	
				, ,	っ	4	(WBID_												₩ ·	24		
		ted Cha ocation				_(m) (he	ight bet	ween lo	w bank	width a	nd wate	r)				Diss	solved C	Oxygen:	8.		(mg/L)	
		UTM X:	•		3CL 1).	UTM Y	443	4695	ę.							Diss	solved ()xvaen:	100.	3	(% sat)	
					stimate	(GPS D	ata Qua	ality):	+/-		(feet)										(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
					7	A						•	1 mayor per	S. Jacon			Specific	c Cond:	363	1.	(µS/cm)
	Averag	e Strea	m Width	<u>1:</u>	T	<u> </u>	(meters)	_		-	-	156	(meters)		.		19.3	and facilities	/0.O\	
	Field	d Staff:		iRH	71				(20x ave	erage str	eam widt	h)				Wate	r Temp	erature:	_ (1/1)	- Servi	(°C)	
	l rieit	a Otan,		ar	3 .1/2	î î V									:							
	# (-c)		, Å Jack :	Carrie 1	Cant N	i va				Trans	ect Cr	oss-Se	ection	Attiva	l sant.	to Kind		n de de la como de la		J. ST. T.	补偿 证的	
	0	11	a	12	C)3	C	14	0	5	0	6	O)7	a	18	0	9	1	10	1	1
Measurement	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Oistance (m)	Depth (m)	Distance (m)	Depth (m)
	1/1		B		0.1	11	0.2		0.4	0.1	0.9	0.1	0.7	0.1	1.8		0.9	0.1	0.4	0.1	0,1	,
1	0.6	0.1	1,0	0.4	U·!	V.	is a show	,	,					1			V. I					0.1
2	1.4	0.2	0.9	0.5	1, 1	0.5	¥ 4	0.4	1.0	0.2	1.3	0.2	1.2	0.2	23	0.1	1.1	0.1	0.6	0.2	0.3	0.1
3	2.2	0.2	1.8	0.4	91	0.5	2.0	0.4	1.6	0.2	1,7	0.2	1.7	0.2	2.8	0.1	1.3	0,2	0.8	0.1	0.5	0.2
4	3.0	0.3	2.7	0.4	3.1	0.4	2.9	0.3	2.2	0.2	2.1	0.2	2.2	0.2	3.3	0.2	1.5	0.2	1.0	0.2	0.7	0.2
_	3.8	0.3	3.6	0.3	u i	0.3	3.8	0.3	2.8	0.3	2.5	0.3		0.3	3.8	0.2	1 *3	0.2	1 1		0.9	0.2
ə					101												1.7		E A Rom			
6	4.6	0.4	4.5	0.3	5.1	0.2	4,7	0.3	3.4	0.3	2.9	0.3	3.2	0.2	4.3	0.2	1, 1	0.2	1.64	0.2		0.2
7	5:4	0.5	5.4	0.3	6.	0.3	5.6	0.3	40	0.4	3.4	04	3.7	0.3	4.8	0.2	2.1	0.2	1.6	0.1	1.3	0.2
8	6.2	0.6	63	0.4	7.1	0.3	6.5	0.4	4.6	0.4	3.8	0.4	4.2	0.3	5.3	0.2	2.3	0.	8	0.1	1.5	0.1
0	7.0	0.7	7.2	04	8	0.3	7.4	0.3	5.2	0.3	4.2	0.4	4.7		5.8	0.2	2.5	0.1	20	0-1	1.7	0.1
9	4 0			₩ ()						-											_ ` '	
10		0.4		0,3	9.1	0.7	8,3	0.4	5,8	0.2	4.6	0.5	5.2	0.2	6.3	0.1	2.7	0.1	See . See	0.1	General C	0.1
11	8.6	0,1	9.0	0.1	10.1	0.1	9.2	0.1	6.4	0.	5.0	0. l-	5.7	0.1	6.8	0.1	2.9	0.1	2.4	0.1	2.	0.1
12	8.7	8	9.2	6	10.5	B	9.8	No facility	6.7	4	5.5	8)"	6.4	0	6.0	W	4.1	Soft .	42	A CONTRACTOR OF THE PARTY OF TH	6.0	0
eature Type (riffle, run, or pool)		.	000		P00)	D0(c	D00	\	rur	`	141		ru	^	16	Λ	fur	1
	ب سر	/ I	and the	J- 1	1 4 6 6	٩	[J(J)	<i>2</i>	Brown Carry C	e (مُمَا مُمَا مُلِياً مُعَالِيًا	ì	1 64	ŧ	1 4/4		4 P. ([1			₹ 1×13	1

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0.m.

Signed: Itari A Hamilton Date: 23 MAY 2007

Mr WC 5-25-07

WBID#	674	
Site#	6	

Data Sheet B - Site Characterization

Date & Time: 33 Mp	W 2mm 11'55		Site L	ocation Desc	ription (e.g., road crossing):				
	ctors): JRH, JUH		downstream of Huy IL Crossing.						
	,		Facility Name: Green City www.						
Current Weather Cond	litions: partly surry	, 75°F	Permit Number: 400 0112135						
Weather Conditions fo	or Past 10 days: \\3"	rain							
Drought Conditions?:	No drought □; Phase I □	l; Phase II □;	Phase II	[□; Phase]	(V □; Unknown 🏿				
l coffees						. 17 7 7 7 2 2007 200			
E Locations:	ES (UNIVERSAL TRANSVERS	E MERCATOR I	PROJECTI	ON, IN METER	S) renorman v verso				
	es: UTM X: 0512875			Y: 44:	/ \				
	TION METHOD (Indicate the me		ermine the		- · · · ·	, a contra significant contra contra contra de la seguina de la contra c			
	lobal Positioning System (G	SPS)			Interpolation	on			
Static Mode Dynamic Mode (Kinem	atic)				ohic Map or DRG otograph or DOQQ				
Precise Positioning Se				Satellite I	Massaunt				
Signal Averaging					tion Other				
Real Time Differential	Processing								
HORIZONTAL ACCUR	ACY ESTIMATE	n, 17 Jak July Mark Julius Bast	P-950 781/ NO	12 102 11 12 1 18 2 18 2 18 2 18 2 18 2					
	GPS Data Quality				Interpolation Date				
FOM	±Meters			Source	Map Scale: 1:24,000 1:100,0	<u> </u>			
EPE	± <u>20</u> Feet or ±	Meters			±Feet or ±_				
PDOP]		ialerel 2			
otos:									
Photo ID# (WBID Site# ##)	Photo Purpose and D			hoto ID# BID Site# ##)		e and Direction			
0674-6-1155		JIRI)		DED GROW MAY	(upsicant co	wish care, only			
0674-6-11-6									
	BRIDGE, HWY H								
	SLOPE, LEFT B	î di dan i Ali	n øz lim	W ana	nt.				
	Jses actually observed								
Swimming	☐ Skin diving		CUBA div	ing	☐ Tubing	☐ Water skiing			
☐ Wind surfing	☐ Kayaking	□Во	oating		□ Wading	☐ Rafting			
☐ Hunting	☐ Trapping	☐ Fis	shing		None of the above	Other:			
		ng, photo-docu	umentatio	n of evidence	of recreational uses, etc. Us	e Data Sheet D- Recreationa			
Use Interview when co	onducting interviews.)								
rrounding Cond	itions*: (Mark all that pror	note or impede r	recreational	uses. Attach p	photos of evidence or unusual iter	ms of interest.)			
☐ City/county parks	☐ Playgrounds	☐ MDC cor		· · · · · · · · ·	☐ Urban areas	☐ Campgrounds			
☐ Boating accesses	☐ State parks	☐ National	forests		☐ Nature trails	☐ Stairs/walkway			
☐ No trespass sign	☐ Fence	Steep slo	pes		☐ None of the above	Other:			
	1 —	1/ 2.1.0p 310	r						
Comments:									

WBID#_	674
Site#	10

dications of Hu	ıman Use*: (at	tach photos)						
Roads	☐ Rope swings	☐ Foot paths/	prints 🗆 🗅	ock/platform	Livestock	Watering	□ RV /	ATV Tracks
☐ Camping Sites		☐ Fire pit/ring	□N	PDES Discharge	☐ Fishing T	ackle	☐ Other	:
Comments:								
ream Morphole							***************************************	
Upstream View	's Physical Des	~	_	iter present at the obvious curre		Yes □	No No	
Select one of the Channel Feature	e following char			Width (m)	Length (m)	Median De	pth (m)	Max. Depth (m)
RIFFLE		access	(m)					
RUN								
POOL					4,			
	was to the second	e de cominge de la cominge de	OUTSTANDARD WEST AND ADDRESS OF		and the same	異型 声 一味でいる	1	
Downstream V	iew's Physical I	Descriptions:	Is there any	water present a	at this view?	□ Yes	□ No	
			JUNE STREET, Thebride HIIII 34	an obvious cu	rrent?	□Yes [) No	
Select one of the Channel Feature	e following char Distance from		Width (m)	Length (m) Med	iian Depth (r	20	Max. Depth (m)
RIFFLE	19Islance from	Laccess (III)	YYYIGHE TIII)	Longuit	ay ayac	nan Oepm (i	11)-75-1	wax. Deput (iii)
RUN	VA VA	******				ri digar iraili. 2254 mar	Non-Country 1	
POOL	And		%_1 -\(\range \) dilate \(\range \) is \(\frac{1}{2} \) is \(\frac{1}{2} \) is \(\frac{1}{2} \) is \(\frac{1}{2} \)	2	1. VIVING		\$8 %	
ubstrate*: (The	se values should	add up to 100)%.)					
% Cot			85 % San	d Ø	% Silt	% Mud/0	Clay	% Bedroc
quatic Vegetat	on*: (Note amo	unt of vegetat	ion or algal	growth at the a	ssessment site	e.)		
NONE								
ater Character	istics*: (Mark a	all that apply	\		******			
ODOR:	TOTAL COLOR	☐ Sewage	☐ Musky	☐ Chemical	None	☐ Other		
COLOR:	111111111111111111111111111111111111111	Clear	☐ Green	☐ Gray	☐ Milky			
BOTTOM DEPO	SIT:	☐ Sludge	Solids	Fine sedime	<u> </u>	Othe		
	CE DEPOSITION:			☐ Foam	None None		-	
WATER SORTA	SE DEI OBITION.	Oil	☐ Scum	Foam	LX None	_ LJ Otne	r;	
omments: Pleas	se attach any add	litional comm	ents to this f	orm.				
This information is	not to be used sole	ely for removal	of a recreation	nal use designati	on hut rather is	s to provide	a more	
mprehensive under cision on the recre	standing of water	conditions. Co	onsequently, t	his information i	s not intended	to directly i	influence	e a
ease verify that	you have compl	leted all seçti	ons, checke	d all applicable	e boxes and t	hat every	thing is	s complete.
ırveyor's Signatu	re:	- A tien	Uh_	Date of	Survey: 2	3 /44 2	2007	,
rganization:	ESTME	C WATE		tion:				
February 16	, 2007	Ű	TWC	5-25	-07			

		ME	C Recreati	onal Use A	ttainability	Analysis Fi	ield Su	rvey 🤄	Sheet		
						-		a	Disso	lved Oxyge	n
Waterbody ID:	674	Site #	:0674-6	2_				Date:	23 MAY 200	7 Time	: _11-55
Estimated Cha	anal Insisian:	- 2 (m) (h	(WBID_Site#)	low bank width	and water)			Die	solved Oxygen:	224	(ma/L)
	inner incision. (taken at transe	- Plant	eigni between	10W Darik Widti	rand water)			D13	solved Oxygen.	73.75 3	(119/2)
UTM X:	n512825	î UTM Y	: 4432811	<u>x</u>				Dis	solved Oxygen:	101.6	(% sat)
Horizo	ntal Accuracy E		Data Quality):	+1- 28	(feet)				Specific Cond:	364.0	(uS/cm)
Average Strea	m Width:	7.3	(meter		Survey Segmer	nt: 150	(meters)		er Temperature:		
Field Staff	JRH.	1AH-		(20x average	stream width)			vvate	er remperature:	00:7	_('C)
12 5 - 138 W.	学 是我们是我的	Frankling.		Tra	insect Cross-	Section	Char Markey Car		20 7 1 3 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SAN SANDERSAL S	MECCUL PARK
01	02	03	04	05	06	07	Dietance	8	09	10	11
		Distance	Distance	Dietopos	Dictance	Distance					

	1.4. J. J. C.	THE WAY	Book Contraction of the Contract	a Limby			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	" S. C. Maria		a grante	BYL YI	บรร-จะ	10.17 if 35.	[1], PS F4A	JUNE 1305 W.	1,10 ,7-02	17	1,	W TESTER	5/4/LV (b)	MECCUT.	
	0	11	0)2	0	3	0	4	0	15		6	0	7	-	8	0	9		0	1	1
Measurement	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
1	1.0	0.1	0.1	0.1	B	6.1	0.1	0.1	3.5	0.1	0.7	0.1	0.4	Curson orani	0.6	0.1	1.2	0.1	0.9	0.1	0.1	0.(
2	-73.73m	0.2	0.4	0.2	0.4	0.2	0.3	0,2	3.8	0.1	1.6	0.1	1.3	0.1	*	0.2	1.6	0.1	4	0.2	1.0	0.1
3	1.2	0.2	0.7	0.2	0.8	0.2	0.5	0.2	4.1	0.1	25	<0.1	8.2	0.2	1.6	0.2	2.0	0.1	-9	0.3	1.9	0.1
4		0.2	1.0		200	0.2	0.7	0.2	4,4	0.2	3.4	9.1	3.1	0.3	2.1	0.3	2.4	0.2	4	0.3	2.8	20.1
5		0.2		<0.1	A Section 1	0.1	0,9	0.2	4.7	0.2	4.3	0.1	1	0	2.6	0.3	2.8	0.3	2.9	0.4	3.7	<0.1
6	1.5	0.2		0.1	2.0	0.1	المستون الم	0.2	50	0.2	5.2	0.1	model of a	0.5	3.1	0.3	3.2	0.3	3.4	0.4	popular b 1 mm b 2 mm	0.1
7	1.6	0,2	Janes Const	0.1	5	0.1	1.3	0.2	5.3	0.2	6.1	0.1	5.8	0.4	3.6	0.4	3.6	0.4	3.9	0.4	5.5	0.2
8	10	0.2	3.2	0.1	2.8	2.1	S S	0.2	5.6	0.2	7.0	40.1	6.7	0.4	- marketin	0.5	4.0	0.5	14 2 mg	0.5	6.4	0.2
9	. Sec.	0.1	**	0.1	3.2	0.1	Second Second	Service in the servic	5.9	Comp.	7.9	(O.1	The state of the s	0.4	4.6	0.5	4.4	0.4	4.9	0.5	7.3	0.2
10	Charles of the Control of the Contro	0.1	2.8	0, 1	36	0	and Called	100 mg	6.2	0.1	8.8	(0.1	8.5	0.4	5.1	0.4	4.8	0,3	5.4	0.4	8.2	0.3
11	2.0	0.4	3.1	0.1	4.0	0.1	2.	0.1	6.5	2.1	9.7	0.19	Con Co	0.1	5.6	0.1	51	0.2	5.9	0.1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.1
12	6.0	Q	5.8	4	4.7	0	6.8	0	8.4	A. A	10.3	1	10.2	8	6.0	B	6.0	er	6.2	8	10.2	E Paris
Feature Type (riffle, run, or pool)	rw	7	ru		run		rur	\	riu	1	run		200	J.	Doc)	000	- parade	200	*Bloom.	P00	b-store of

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order,

Transects in order of up to downstream.

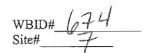
Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0m.

Signed: 24 A fail. Date: 23 MAY 2 603

WBID#	674
Site#	7

Г	Data & Time: 02 44 a	110		Site Locat	ion Desci	ription (e.g., road crossing):					
	Date & Time: 23MA						A				
	Personnel (Data Collecto			4,000	MERM	of ASPEN ST	Crowing				
	Current Weather Condition	ions: Junit, ~80°	<i>j</i>	Facility N	ame: (- imber: n	no puzist					
	Weather Conditions for I										
	Drought Conditions?: N	o drought \square ; Phase I \square	: Phase II 🗆:	Phase III	: Phase I	V □: Unknown 🗗					
		· · · · · · · · · · · · · · · · · · ·	,		,	£ 1					
Site	e Locations: LOCATION COORDINATES	GUNIVERSAL TRANSVERS	E MERCATOR F	PROJECTION,	IN METER	S) FERRAL POLICE STATES	HILFYPURAN (TRITT				
		: UTM X: 051386			v v	+30122 (IST)					
ŀ		ON METHOD (Indicate the me					Will be an alternative and a second				
	Glo	bal Positioning System (G				Interpolation	on				
	Static Mode			Topographic Map or DRG Aerial Photograph or DOQQ							
	Dynamic Mode (Kinemat Precise Positioning Servi				Satellite I						
-	Signal Averaging					tion Other					
-	Real Time Differential Pr	ncessing			morpoid						
-	HORIZONTAL ACCURA	_		ואיי חובנו ביאו כי	e all reso ner e e						
ŀ	Classification of the second	GPS Data Quality		<u> </u>	a Quality						
	FOM :	±Meters			000 Other						
	EPE :	± <u>23</u> Feet or ±	Meters	Source Map Scale: 1:24,000 1:100,000 Other							
İ	PDOP					±Feet or ±_	weters				
٠.											
Ph	otos:	Di ete Decessor en l'O	innetien	Dhat	- ID#	Dhota Duman	a and Direction				
	Photo ID# (WBID Site# ##)	Photo Purpose and D (upstream, downstream, o			O ID# Site#_##)		se and Direction ownstream, other)				
	0674-7-1059 (APSTREAM	,								
	0674_7_1000 DX)will have									
	0674-7_1061 S	hope Rt. Bank, du Bridge, Aspan Rd.	1001 486 pm								
	0674_7_1062	Kridey , Aspen Rd.									
Us	es Observed*: (Us	ses actually observed	d at time of	survey.)			1				
	☐ Swimming	☐ Skin diving	□ sc	CUBA diving		☐ Tubing	☐ Water skiing				
	☐ Wind surfing	☐ Kayaking	□Во	oating		☐ Wading	☐ Rafting				
	☐ Hunting	☐ Trapping	☐ Fis			None of the above	Other:				
			ng, photo-doct	umentation of	f evidence	e of recreational uses, etc. Us	se Data Sheet D- Recreational				
	Use Interview when con	iducting interviews.)									
Su	rrounding Condit	ions*: (Mark all that pror	note or impede r	recreational use	es. Attach p	photos of evidence or unusual ite	ms of interest.)				
	☐ City/county parks	☐ Playgrounds	☐ MDC cor	nservation lar	nds	☐ Urban areas	☐ Campgrounds				
	☐ Boating accesses	☐ State parks	☐ National	l forests		☐ Nature trails	☐ Stairs/walkway				
	☐ No trespass sign	☐ Fence	Steep slo	opes		☐ None of the above	Other:				
	Comments:										



February 16, 2007

Field Data Sheets for Recreational Use Stream Surveys

ndications of	Human Use*:	(attach phot	tos)							
Roads	☐ Rope swings	☐ Foot pa	aths/prints	□ Doc	:k/platform	☐ Liv	estock V	Vatering	□rv	/ ATV Tracks
☐ Camping Si	ites	☐ Fire pit	/ring	☐ NPI	DES Discharge	☐ Fis	shing Ta	ckle	☐ Oth	er:
Comments:										
tream Morph Upstream Vi	ology: iew's Physical D	escriptions:		-	er present at t		v? 🗆 '		No No	
Select one of Channel Featur	the following ch	t (#) Dis	tance from	Wi	dth (m)	Length ((m)	Median De	pth (m)	Max. Depth (m)
RIFFLE		ac	ccess (m)							
RUN				<u> </u>						
POOL										
Downstream	View's Physica	l Descriptio	may by by			BUSID		entrata	□ No □ No	
	the following ch		res:		n obvious cu	SALLIE COLUMN	. Bec. de		শ ক	
Channel Featu RIFFLE	re Distance b	rom access (m)	Widi	h (m)	Length ((m)	Medi	an Depth (n	<u>n)</u>	Max Depth (m)
RUN				i into	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	"ADREKS	- 2.294 W.	(847,1583,179	## *********	Now the constant
POOL	AND WAS ILL AND ASS. TO BE A SOCIETY OF THE SOCIETY	E HS 1 1 19 10 10 10 10 10 10 10 10 10 10 10 10 10	- Market Medicals	and a second control of the second control o		24.4 a 1.50 a 1.		BBM 11 READ 12.1.	· 7-1	
~ J. W. J. J. J. W. J. J. S.		Na m F.			ę s		To person	4.	2	
	These values shou						- market			
%	Cobble 5	% Gravel	80	% Sand	10	% Silt	1.5	% Mud/0	Clay	% Bedrock
quatic Vege	tation*: (Note ar	nount of veg	getation or	algal gr	owth at the a	ssessme	ent site.	.)		
NOV	JE.									
ater Charac	teristics*: (Mar	k all that app	oly.)							
ODOR:		☐ Sewa	ge 🗆	Musky	☐ Chemical	Z	None	☐ Other	r:	
COLOR:		☐ Clear		Green	☐ Gray		Milky	` ⊠ Other	:BRO	WN
BOTTOM DE	POSIT:)⊠(Sludg	ge 🏻	Solids	Fine sedime	ents 🗆	None	☐ Other	r:	
WATER SUR	FACE DEPOSITION	N: □ Oil		Scum	☐ Foam)2	K None	☐ Other	r:	
omments: P	lease attach any a	dditional co	mments to	this for	m.					
omprehensive ur	is not to be used s derstanding of war creation use analys	ter conditions	. Consequ	ently, thi	s information i	is not int	tended to	o directly i	influen	ce a
lease verify th	at you have con	apleted all s	ections, c	hecked .	all applicabl	le boxes	and th	at every	thing	is complete.
urveyor's Sign	ature: Distan	ni A A	amilto	ban.	Date of	f Surve	y: 231	VAY 20	07-	
rganization:	AESI MEC	WATER	~	Positio	on: FIELD					
		7.1			419/4					

	ı															25, 155		Disso	ived U	xygen	To be a series	41.500.2		
	Waterb	Vaterbody ID: 674 Site #: 0674 - 7 (WBID_Site#) Stimated Channel Incision: 4 (m) (height between low bank width and water)														Date: ¿	23 MA	Y 2007		Time:				
	Estima	ted Cha	nnel Inc	ision:	<u> </u>	(m) (he	(WBID_ eight bet	Site#) ween lo	w bank	width a	nd wate	r)				Diss	solved (Oxygen:	9.	78	(mg/L)			
	l	UTM X: Horizor	0513	845				01122		12	(foot)							Oxygen:			(% sat)			
					sumate Ø , L	1					(feet)		A Ar	` .			Specific	c Cond:	388	. 8	(µS/cm)		
		je Streai					(meters) Length of Survey Segment: 200 (meters) (20x average stream width)										Water Temperature: <u>23.1</u> (°C)							
	Field	Field Staff: JRH, JAH												-			: ''<=== :		5 1000000					
		01 02 03 04 05 06 07												8	SP********	9	10		1	<u> </u>				
Measurement	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance	Depth (m)	Distance	Depth (m)	Distance (m)	Depth (m)	Distance	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)		
1	0.2	0.	0.3	0.1	0.3	0.1	0.6	o. l	0.5	0.1	0.3	0.1	0.2	0.	0.1	0.1	0.1	0.1	2.8	0.1	1.5	0.1		
2	.5	0,4	1.6	S. C.	1.6	0.2	1.2	0.2	1.2	0.2	and from	0.2	1.5	0.3	0.9	0.4	0.6	0.2	3,0	0.(1.8	0.1		
3	2.8	0.3	2.9	0.4	2.9	0.2	1.8	0.3	1.9	0.3	3.1	0.2	2.8	0.3	Ann Pro	0.1	AT Mining	0.3	3.2	01	2.1	0.1		
4	Constitution of the state of th	0.5	4.2	0.3	4.2	0.2	2.4	0.3	2.6	0.3	4.5	0.2		0,4	2.5	0.2		0.3	3.4	0.1	2.4	0.2		
5	5.4	0.5	5.5	0.2	5.5	0.2	3.0	0.4	3.3	0,4	5.4	0.2	5.4	6.4	3.3	0,5	2.1	0.2	3.6	0.1	2.7	0.2		
6	6.7	0.3	6.8	0.3	6.8	0.2	3.6	0.4	4.0	0.5	7.3	0.1	6.7	0.3	100 miles	0.6	2.6	0.2	3.8	0.2	3.0	0. [
7	8.0	0.2	7	0,2	8.1	0.2	4.2	0.4	4.7	0.6	8.7	۷٥.١	a.b	0.3	- Jens	0.4	3.1	0,	40	0.2	3.3	0.0		
8	9.3	0,0	-T	0.2	9.4	0.3	4.8	0.4	5.4	0.6	, and	0.1	0.3	0.3	5.7	0.4	3.6	0.1	4.2	0.2	3.6	0.		
9	10.4	0.3		Q.	10.7	0.3	54	8.5	٧. l	0.7	Services Services	~	11.6	0.2	6.5	0.2	A Company	٥.٠٠	(magazini Magazini	0.2	3.9	0.1		
10	Action of the second	0.2	12.0	0.2	12:0	0.3	6.0	0.5	6.8	0.7	12.9	0, 1	12.9	0.2	7.3	0.2	4.6	0.1	46	0.2	4.1	0.1		
11	13.2	0.1	13.3	- June	13.3	0.1	6.6	0.2	7.5	0.1	14.3		May France	0.1	8.1	0.	5.1	() .	4.8	0.1	4.5	0.1		
12 eature Type (riffle,	13.8	0	13.8	0	13.5	0/	7.5	Ø	7.9	0	15.0		14.0	8	9.5	Cod	7.0		6.7			G.		
run, or pool)	000	4 01/18	900	Name of Street	200	1	Poo	10000	Do	Con to the second	ru	1	DUD		Por		rw	1	run		YWY	1		

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.

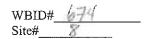
GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0m.

Signed: Affamilton Date: 23 MAY 200K



Data Sheet B - Site Characterization

Date & Time: 23	1AY 2002 12.43	2 Si	ite Location Descr	ription (e.g., road crossing):						
Personnel (Data Colle	; ;)			QUOCA ST. Crossing					
			acility Name: C	man or an arm	750077 21 CLORING					
	ditions: Suny ~80	Pe Pe	ermit Number: 1	noaliziza	/ I F					
Weather Conditions f	or Past 10 days: \.3 ^N	rain		·						
Drought Conditions?:	No drought □; Phase I □]; Phase II □; Pha	se III □; Phase I	V □; Unknown/\(\)						
	,	,	·							
ite Locations:	TES (UNIVERSAL TRANSVER:	SE MERCATOR PROJ	ECTION, IN METER	S)						
	tes: UTM X: 051377		Y: 442							
	TION METHOD (Indicate the m	•			andrens in the factor of the f					
	Global Positioning System (GPS)		Interpolati	on					
Static Mode	natic)			ohic Map or DRG						
Dynamic Mode (Kiner Precise Positioning Se	•			otograph or DOQQ						
Signal Averaging	U) VICC		Satellite Imagery Interpolation Other							
Real Time Differential	Processing		,,,,orpolat							
HORIZONTAL ACCU	-	w See Sept. 12 to 12 to 3 to	an Name Transis in Section (Section 1998)	STOTT () TAN 2 (1),18, 1887年) 「出ての計 1 年」。 1 842年 1 427年						
The second secon	GPS Data Quality			Interpolation Dat	a Quality					
FOM	±Meters	\$	Source	Map Scale: 1:24,000 1:100,0						
EPE	± 23 Feet or ±	Meters								
PDÓP				±Feet or ±_	Meters					
hotos:										
Photo ID#	Photo Purpose and I	Direction	Photo ID#	Photo Purnos	se and Direction					
(WBID Site# ##)	(upstream, downstream,		(WBID Site#_##)		ownstream, other)					
0674-8-10031										
0674-8-1064	DUNCTREAM		li .							
	SLOPE, ET. BANK, D	O I WE IN A MAN	e see a la company							
0474-5- 74	JEURES EL BANKE, M	3 1 (1 th)								
<u> </u>	Hasa actually chaseys	d at time of our								
,	Uses actually observe		,							
☐ Swimming	☐ Skin diving	□ SCUBA	diving	☐ Tubing	☐ Water skiing					
☐ Wind surfing	☐ Kayaking	☐ Boating	5	□ Wading	☐ Rafting					
☐ Hunting	☐ Trapping	☐ Fishing		None of the above	Other:					
		ing, photo-documen	tation of evidence	of recreational uses, etc. Us	se Data Sheet D- Recreational					
Use Interview when	conducting interviews.)									
urroundina Conc	litions*: (Mark all that pro	mote or impede recrea	tional uses. Attach n	photos of evidence or unusual ite	ms of interest.)					
☐ City/county parks		☐ MDC conserv	_	Urban areas	☐ Campgrounds					
☐ Boating accesses		☐ National fores		☐ Nature trails	☐ Stairs/walkway					
☐ No trespass sign	☐ Fence	Steep slopes		□ None of the above	Other:					
		N — Steep gropes								
Comments:										

WBID#	674
Site#	8

February 16, 2007

Field Data Sheets for Recreational Use Stream Surveys

ndications o	f Huma	ın Use*: (aı	ttach photo	s)	_						
Roads	□R	ope swings	☐ Foot path	ns/prints	☐ Doc	k/platform	☐ Liv	vestock V	Vatering [□RV	/ ATV Tracks
☐ Camping S	Sites		☐ Fire pit/ri	ng	☐ NPI	DES Discharge	e 🗆 Fi	shing Ta	ckle [2	₹Oth	er:TIRES
Comments:		-						-			
Stream Morp	hology										· · · · ·
Upstream V			-	If so, is t	•	er present at obvious cur		v? 🗆 '			
Select one o		Ilowing char Transect (#		nce from	Wi	dth (m)	Length	(m)	Median Dep	th (m)	Max. Depth (m)
		Transcot (n	′	ess (m)		dar (m)	Dongan	(111)			Train Dopin (III)
RIFFLE											
RUN											
POOL											
Downstream Select one o	f the fol	llowing cha	nnel feature	If so, is	s there a	n obvious c	urrent?	in the state of th	∃Yes ⊏	∃ No ∃ No	
Channel Feat RIFFLE	ure	Distance from	n access (m)	Widtl	1.(m)	Length	(m)	Medi	an Depth (m		Max. Depth (m)
RUN	WE'AS		1 (1) (1) 1 (1)	<u>7 e</u>	· 14	Talana Promo	*****		: 5°44 -1 160	<u>e≘ "r</u> 	TO SECTION
POOL	1111	TALLED THE THE SALE			00-0-11-40-0 67 8 Probablication 1 2 11 2	THE REPORT OF THE	A Semi A LANDER		#27 " 2. m/ /	E water	THE STATE OF STREET AND STREET
T C To an University		3 - 220 1 07 - 71	- 184 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 - 194 -		,50 (5. 1-	1000 000000					
Substrate*: (These v		add up to 1 Gravel	95	% Sand	5	% Silt	T	% Mud/Cl	lov	% Bedroc
				1 5						ay	78 Bedroc
Aquatic Vege		: (Note amo	ount of veget	tation or	algal gr	owth at the	assessm	ent site.	.)		
MON	6		***************************************								
Vater Chara	cteristi	cs*: (Mark	all that apply	y.)							
ODOR:			☐ Sewage		 Musky	☐ Chemical)z	None	Other:		
COLOR:		BROWN	☑ Clear		Green	☐ Gray	C	Milky	Other:		
BOTTOM DI	EPOSIT:		☐ Sludge	X.	Solids	Fine sedin	nents [] None	Other:	;	
WATER SUE	RFACE D	EPOSITION:	□ Oil		Scum	□ Foam	×	None	Other:		
Comments: I	Please at	tach any add	litional com	ments to	this for	m.		•			
This informatio		•					ition but i	rather is	to provide	a mor	ra.
omprehensive usecision on the r	ınderstan	ding of water	conditions.	Conseque	ently, this	s information	is not int	tended to	directly in	ıfluen	ce a
Please verify t	hat you	haye comp	leted all sec	tions, ch	ecked :	all applicab	le boxes	and th	at everytl	hing	is complete.
Surveyor's Sig	nature;_	Liffan	in A Ala	emils	12 Mars	Date o	of Surve	y:_ <i>9</i> 3	MAY 2	רטק	g
Organization: _/	AES,	MEC	WATER	V ₂₁	_ Positio	on: <u>FIEL</u>	D TEC	H		_	
				a 10-	(3 z	a m 7 6	-A 57				

						MEC	Reci	eatio	nai Us	se All	amab	IIILY A	illalys	IS FIE	iu Su	rvey	nieer					
			1-7	, l				سيي ر								- 46	on,			xygen		
	Water	body ID:	<u>07</u>	7	- Ork	Site #:	<u>06 ₱°</u> (WBID		-							Date: _c	25/4	44200	- Par	Time:	13:43	
		ited Cha			4	_ (m) (he			w bank	width a	nd wate	r)				Diss	solved C	Oxygen:	10.3	<u> </u>	(mg/L)	
		ocation UTM X:	•			UTM Y:	442	9912								Diss	solved C	Oxygen:	_113.	.5	(% sat)	ı
					- stimate	(GPS D	ata Qua	ality):	+/-	23	(feet)	-				l						
	Averad	ge Strea	m Widti	h· (8.1		(meters)	Lenc	gth of Su	irvev Se	eament:	160	<i>y</i> (meters)		Specific	Cond:	3/5	9 7	(µS/cm)
	l '					<u></u>				erage str					,	Wate	r Tempe	erature:	_ <i>23</i> .	8	(°C)	
	Fiel	d Staff:	off: JRH 244 (20x average stream with)																			
	2-14%0 V		\$-67.2-	h(w.		izidalir.			W Joseph Com	Trans	sect Cı	oss-Se	ection	r Partain (party	Th Dengs: A	1 12 12 1	#17/3 2 July 1	`-,	signal of		11 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	aga da Jar
		01	()2	(03	()4	C)5)6		17	0	18	_	19	1	10		1
Measurement	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
1	2.60	0.1	0.4	0.1	0.3	0.1	0.3	0.1	0.3	0.1	0,4	0.1	0.1	0.1	0.8	0.	0.7	0.1	30	0.1	0.2	0.1
2	3.0	Δ	1.0	0.1	0.9	0.1	0.8	0.1	0.9	0.2	10 mg	0.2	0.1	<0.1	1.6	0.2		0.1	3.5	0.1	1.0	0.1
3	3.4	0.1	1.6	0. i	1.5	40.1	1.3	0.3	1,5	0.3	1.8	0.2	2.7	<0.1	24	0.2	2.7	0.1	40	0.1	1.8	0.2
<i>A</i>	3,8	0.1	2.2	0.1	2.1	40.1	1.8	0.3	2,1	0.3	2,5	0	3.5	0.1	3.2	0.2	3.7	0.2	4.5	0.1	2.50	0.2
-	4.2	A	2.8	0.1	2.7	0.1	23	<0.1	2.7	0.2	3.2	A 1	4.3	0.1	4.0	0.3	4.7	0.2	5.0	0.2	3.4	0.2
5	4.6	0.1	1	- ·	3.3	<01	2.8	40.1	3.3	0.2	3.9	40.1	5.1	0.1	4.8	0.3	5.7	40.1	5,5	0.3	4.2	
6			3.4	<0.1							i i			(2,1			,					0.2
7	5,0	0,1	4.0	40,1		0.2	3.3	0.1	3.9	0.1	4.6	40.1	5.4	<0.1	5.6			<0.1 <∧	6.0	0.4	5.0	0.2
8	5.4	<0.1	4,6	Kon	4.5	0.2	3.8	0.1	4.5	0.2	5.3	ı	6.7		10.H	0.4	7.7	40.,	6.5	0.5	5.8	
9	5.8	<0.1	5.2	0.1	5.1	0.2	4.3	0.2	5.1	0.2	6.0	0,2	8.5	0.2	7.2	0.3	4.7	0.1	7.0	0,5	6.6	0.2
10	6.2	1	5.8	<u> </u>	5,7	0.2	4.8	0.3	5.7	0.2	6.7	0.1	9.3	0.3	80	0.1	9.7	0.2	7.5	0.5	7.4	0.3
11		0.1	6.4		6.3		5.3	0.1	6.3	0.1	7.4	0.1	10.1	0.1	8.8	0.1	10.7	0.1	€.0		8.2	
42	18	65	Ti	4	10.4	Same of the same o	S. 14	0	1, 2	122	24	Series Course.	88	1200	91	Eine Proces	11 9	1	85	and the same	95	a

YWN

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Transects in order of up to downstream.

Feature Type (riffle

run, or pool

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0m.

Signed: Ifami A Hamilton Date: 23 MAY 2007

Anc 5-25-07

O(N)

WBID#_	674
Site#	9

Data Sheet B - Site Characterization

Date & Time: 23 1414	2007 15.	57	Site Location De	scription (e.g., road crossing):						
Personnel (Data Collectors):	ACM. Sil		2000 upstream of site 10							
Current Weather Conditions:	mostly close	4,757	Facility Name: Green City wwiF Permit Number: MO 0112135							
Weather Conditions for Past		1.2								
Drought Conditions?: No drought □; Phase I □; Phase II □; Phase III □; Phase IV □; Unknown										
Nt. Lantings	- · · · · · · · · · · · · · · · · · · ·									
Site Locations: LOCATION COORDINATES (UN	IVERSAL TRANSVERSE	MERCATOR PRO	OJECTION, IN MET	ERS)						
Site GPS Coordinates: UTM X: 0512997 Y: 4423388 (15T)										
HORIZONTAL COLLECTION M	ETHOD (Indicate the meth	nod used to determ			(7.1. 1. 2.1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.					
	Positioning System (GF	PS)		Interpolation	חמ					
Static Mode Dynamic Mode (Kinematic)				raphic Map or DRG Photograph or DOQQ						
Precise Positioning Service				e Imagery						
Signal Averaging				plation Other						
Real Time Differential Proces	cina		- Interpo	ACTION OF THE PROPERTY OF THE						
HORIZONTAL ACCURACY E	-	3. Day T. A. 250	of special spe	表表 。"首章也是"在","全部是否是你的一个,"是","你",他的"不多"。"它的",他们是,是是						
10 100 Miles (4.1 a 1904 1 2 Miles), a 1904 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GPS Data Quality			Interpolation Data	a Quality					
FOM ±Meters										
EPE ± 2	Feet or ±	Meters			·····					
±Feet_ or ±Meters										
Photos:										
	Photo Purpose and Dir		Photo ID#	Photo Purpose	e and Direction					
(WBID_Sic###)	(upstream, downstream, oil	her)	(WBID She# ##)	1072 Bridge	wnstream, other)					
0674 9_1167 DOL										
0674 9-1068 SLO										
W J. J. Comm. J. of	* '									
Jses Observed*: (Uses a	ctually observed	at time of su	arvey.)							
☐ Swimming	☐ Skin diving	☐ scui	BA diving	☐ Tubing	☐ Water skiing					
☐ Wind surfing	☐ Kayaking	☐ Boati	ing	☐ Wading	☐ Rafting					
☐ Hunting	☐ Trapping	☐ Fishi	-	None of the above	Other:					
	Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)									
Surrounding Condition	S*: (Mark all that prome	ote or impede recr	reational uses. Attac	h photos of evidence or unusual iter	ns of interest.)					
☐ City/county parks	☐ Playgrounds	☐ MDC conse		☐ Urban areas	☐ Campgrounds					
☐ Boating accesses	☐ State parks	☐ National fo	rests	☐ Nature trails	☐ Stairs/walkway					
☐ No trespass sign	☐ Fence	Steep slope	es	☐ None of the above	Other:					
Comments:										

WBID#	674
Site#	9

February 16, 2007

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(must be completed for each site)

Indications of	Human Use*: (a	ttach photo	s)							
Roads	☐ Rope swings	☐ Foot path	hs/prints	☐ Doc	c/platform	☐ Liv	estock V	Vatering	□RV	/ ATV Tracks
Comments:	tes	☐ Fire pit/r	ing	☐ NPT	ES Discharge	☐ Fis	hing Tac	kle	☐ Oth	ner:
Stream Morph	ology:									
•	ew's Physical De	scriptions:	Is there as	nv wate	r present at t	his view	7? 🗆 Y	Yes □	No	
- F		-		-	obvious curre				No	
Select one of	the following cha		-	ici c aii s	70 V 10 U3 CU11	CIIC:		. 63	110	
Channel Featur		#) Dista	nce from ess (m)	Wie	lth (m)	Length (1	m)	Median De	epth (m)	Max. Depth (m)
RIFFLE		acc	ess (iii)							
RUN							1			
POOL										
								H-71114111 221116		
Downstream	View's Physical	Description	s: Is ther	e any w	ater present	at this v	iew? [Yes	□ No	
			If so, is	there a	n obvious cu	errent?	L	Yes	□ No	
	the following cha			A WAS TO THE R	A CIETY OF THE PARTY			, , , , , , , , , , , , , , , , , , , ,	Many MI 24	
Channel Featur RIFFLE	e Distance fro	m access (m)	Width	(m)	Length (m)	Medi	an Depth (m) .	Max. Depth (m)
RUN	965 N.W. 1287 - P. S.	ART SALES AND	\$ (20g) 5 S	CSXUM-	řeka provo Navy	W/02/1659		7	17 'FT.	
POOL	e Navasarias - 1700 ir 188 1	nersk e sak is sje	57 L. Y. 1	iroesi serri	A. II. AND M.	i cea lai	7 T 102 Test	tool model or the market of	14. · · · · ·	
	一个人的人们 图图 1 图图 1 图 1 图 1 图 1 图 1 图 1 图 1 图 1	was to so you	五元時 竹"	n Leader of	PER PALSEY		gan <u>i ym</u>	B, 8972-340	7-5.32	
Substrate*: (T	hese values shoul	d add up to 1	100%.)							
% (Cobble \	% Gravel	99	% Sand		% Silt		% Mud/	Clay	% Bedrock
Aquatic Veget	ation*: (Note am	ount of vege	tation or a	algal gr	owth at the a	ssessme	nt site.)		
NONE								· · · · · · · · · · · · · · · · · · ·		
Nater Charact	teristics*: (Mark	all that appl	v.)							
ODOR:		☐ Sewage	•	lusky	☐ Chemical		None	☐ Othe	 er:	
COLOR:)Z Clear		Green	☐ Gray		Milky	☐ Othe	r:	
BOTTOM DE	POSIT:	☐ Sludge		Solids	Fine sedime	ents 🗆	None	☐ Othe	er:	
WATER SURI	FACE DEPOSITION:	□ Oil		Scum	☐ Foam	À	None	☐ Othe	er:	
Comments: Pi	ease attach any ad	ditional com	ments to	this for	m					
	case attach any ac		micrito to	1115 101	***					
	is not to be used so									
	derstanding of wate creation use analysis									
	at you have com					•				
rease verify th		A I		cencu z	~ ~		470		V 17 AL 1	-
Surveyor's Sign	ature:	- A H	all				:	3/1/11	ZOX) vij
Organization:	AES/MEC	WATE	King	_Positio	n: F1E1		[[.]	-		
		Andre Control	3		4272					

Juc 5-25-017

				;			arter and									Page seem w		Disso	Ived O	xygen	gan - 120 - 1800 - 2 - 1901 - 190	and the Carlo
	Waterb	ody ID:	674	<u> </u>	-	Site #:										Date:	<u>a3</u> /14	42007	-	Time:	15:53	afer.
		ted Cha				(m) (he	(WBID_ eight bet	Site#) ween lo	w bank	width a	nd wate	r)				Diss	solved ()xygen:	8.7	79	(mg/L)	
	GPS Location (taken at transect 1): UTM X: 05/2997 UTM Y: 4423388											Diss	solved (Oxygen:	99.	8	(% sat)					
	Horizontal Accuracy Estimate (GPS Data Quality): +/- 2 δ (feet) Specific Cond: 3/4, 3 (μS/cm) Average Stream Width: (meters) Length of Survey Segment: / 7 (meters)																					
	Average Stream Width: O. U (meters) Length of Survey Segment:/ 70 (meters) Water Temperature:																					
	Field	d Staff:		KH	; A	lt						-										
	Maridia di 4	we have a grown	gran sager a	m2-3_U33age.lenges		AP	NE MESSEL.	y systems y	пиннуччицег	Trans	ect Cr	oss-Se	ection	105 mar 1 mm	ARRYLI VAN TIL AR	, openio pentra.	A MIN JOSEPH A	District diguits	per at reput Manager	engres as se	yes with great	
	Distance)1	Distance	2	Distance	3	Distance)4	Distance	5	0 Distance	6	Distance	7	0 Distance	8	Distance	9	1 Distance	0	1 Distance	1 .
Measurement	(m)	Depth (m)		Depth (m)	(m)	Depth (m)	, ,	Depth (m)	(m)	Depth (m)	(m)	Depth (m)		Depth (m)		Depth (m)	(m)	Depth (m)	(m)	Depth (m)		Đepth (m)
1	0.7	0.1	2.8	0.1	4.8	0.1	2.0	0.1	0.2	٥.١	0.3	0.1	0.4	₽.)	0.8	0.1	4.5	0.1	4.4	0.1	6.4	0.1
2	1.3	0.1	3,2	0.2	5.0	0.1	2.8	0.2	8.0	0.1	0.9	O. I	0.6	0.2		0.2	5. Î	0.2	6.7	0.1	6.7	2.1
3	1.9	٥.١	3.6	0,2	5.2	0.1	3.6	0.2	notes	0,2	5	0.1	0.8	2.2		0.2	5.7	<0 i	7.0	0.F	7.0	0.[
4	2.5		4.0	0.2	54	0.2	4.4	o. l	2.0	0.2	2.1	0.2	1,0	0.1	, in the second	0.1	6.3	40.	7.3	70	7,3	0.1
5	3.1	0.1	- Andrews	0.1	5.6	0,2	5.2	₹6.1	2.6	0.2	2.7	0.2	i vij Et (m)	0.1	20	0.2	6.9	(0.N	7.6	<0. j	7.6	4.1
6	3.7	o i	4.8	0.1	5.2	0.2	6.0	40.1	3.2	(0.1	3.3	A STREET		0.1	2.3	0.2	19	<0.1	7.9	40.1	7.9	0.1
7	4.3	0.1	5.2	0 (6.0	0.1	6.8	<0. }	3.8	Q. I	3.9	1,0>		0 i	26	0.2	8.1	Û, l	8.2	4),1	8.2	0.1
8	4.9		5.6	0,1	62	O.j	7.6	20.1	4.4	0.1	4.5	40.1		0.1	29	0.2	87	0.1	8.5	22	8.5	0./
9	5.5	0	6.0	0.1	6.4	0.1	8.4	0,1	5.2	0.2	5.1	40.1	2.0	0.1	3.2	7,1	9,3	0.1	8.3	42	~	0.1
10	6,1	0,	(3 mi	0.1	6.6	0.1	9.2	0.2	5.8	0.2	5.7	0.1	2.2	(). \	3.5	0.1	9.9	0.	9.7	12	9.1	0.2
11	6.7	0 1	L. 3		6.8	0.1	10.0	0.	o.t	0.1	6.3	0.1	2.4). Ì	3.8	0.1	10.5			01	9.4	0.1
12 Feature Type (riffle,	8.0	B	6.9	C	8.3	8	10.6	8	7.9	25	7,3	1	6.5	12		Franker"	11.3		12.0		10.1	
run, or pool)	VU	Λ	100	Q.	(W)	Į	FUN		YWY	1	run	٦ -	Cur	1			YUA		1	3	rim	ć

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0.1m (unless depth is insufficient);

0 40 5-75-05

WBID#	674
Site#	10

Data Sheet B - Site Characterization

Data & Time: 0.2 A	DAVO O		Sit	te Location 1	Descri	ption (e.g., road crossin	ng):		
Date & Time: 7	MY2007, 16:2	10							
	ectors): JRH JAH			Downst			JDY	adal	
Current Weather Con-	ditions: Mostly Cloudy	, ruf	Permit Number: MO 0112135						
Weather Conditions for	For Past 10 days: 1.3	irain							
Drought Conditions?:	No drought □; Phase I □]; Phase II 🗆	; Pbas	se III □; Ph	hase IV	/□; Unknown 🏻			
ite Locations: LOCATION COORDINA	TES (UNIVERSAL TRANSVERS	E MERCATOR	PROJE	CTION, IN MI	ETERS	医			
Site GPS Coordinat	tes: UTM X: 05 12 87	8		Y:	44	23273 (157	\rightarrow		
	TION METHOD (Indicate the me		termine	the locational	l data.)			- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
	Global Positioning System (G	SPS)	1				olation		
Static Mode Dynamic Mode (Kinen	natic)		 			nic Map or DRG tograph or DOQQ			
Precise Positioning Se						nagery			
Signal Averaging				_		on Other			
Real Time Differential	Processing				. p 5 10 10			L	
	RACY ESTIMATE		SO THE M	A-347 # 1711.44 # 18	: 11, mg; ; t c	THE BOOK BY TO BE AND STATE	87°.1° 30	a maritaria de la compansión de la compa	
THOSAL DOLLARS THE SACOR	GPS Data Quality				100	Interpolation	Data (Quality	
FOM	±Meters	3		So	urce M	Map Scale: 1:24,000 1:			
EPE			Meters						
PDOP							' <u> </u>		
notos:									
Photo ID#	Photo Purpose and D			Photo ID (WBID Site#				and Direction stream, other)	
(WBID Site##)	(upstream, downstream, upstreem,	oiner)	-	(WBID_SRE#	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(upsare	ant down	stream, other)	
0674-10-1070									
	SLOPE, LEFT CAUL	downstre	Spine 1	of bridge	á.				
2501-01-11-10	BRIDGE							· · · · · · · · · · · · · · · · · · ·	
ses Observed*: (Uses actually observe	d at time o	f surv	vey.)					
☐ Swimming	☐ Skin diving	□ s	CUBA	diving		☐ Tubing		☐ Water skiing	
☐ Wind surfing	☐ Kayaking	□в	oating			☐ Wading		☐ Rafting	
☐ Hunting	☐ Trapping	□F	ishing			None of the above	:	☐ Other:	
	umber of individuals recreati conducting interviews.)	ing, photo-doo	cument	ation of evid	dence	of recreational uses, etc	. Use	Data Sheet D- Recreational	
urrounding Cond	ditions*: (Mark all that pro	mote or impede	recreat	ional uses. At	ttach ph	notos of evidence or unusu	al items	of interest.)	
☐ City/county parks	s 🔲 Playgrounds	☐ MDC co	onserva	ation lands		☐ Urban areas		☐ Campgrounds	
☐ Boating accesses	☐ State parks	☐ Nationa	al fores	ts		☐ Nature trails		☐ Stairs/walkway	
☐ No trespass sign	☐ Fence	Steep sl	lopes			☐ None of the above		Other:	
Comments:		,						,	

WBID#	674	
Site#	in	

February 16, 2007

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

dications of Hu	ıman Use*: (a	ttach photo	os)							
Roads	☐ Rope swings	☐ Foot pat	hs/prints	☐ Doc	k/platform	Liv	estock V	Vatering	□RV	/ ATV Tracks
☐ Camping Sites		☐ Fire pit/r	ing	☐ NPI	ES Discharge	☐ Fis	shing Tac	kle	⊠ Oth	er: TRES
Comments:	Traini Tr			•				16.		
hanne Mannes		•								
ream Morpholo	-									
Upstream View	's Physical Des	-		•	_		ν? LJ:	Yes ⊔	No	
			-	here an	obvious curr	ent?		es □	No	
Channel Feature			es:	1 337:	dela (ma)	T anath ('ma\	Median De	mth /m)	Max. Depth (m)
Channel Feature	Transect (/	ess (m)	W1	dth (m)	Length (m)	Median De	ֆա (ա)	Max. Depth (th)
RIFFLE										
RUN										
POOL										
			953646555	VALUE OF THE	VALUE OF THE PARTY OF THE PARTY.	*	Ross	and the same	= ~: %	
Downstream Vi	ew's Physical]	Description	s: Is the	re any w	ater present	at this y	iew? [] Yes	□ No	
			If so, is	s there a	n obvious cu	rrent?	ΛŪ] Yes	□ No	
Select one of the	e following cha	nnel featur		a William I	terikli hemen Landi isa	the wild be	han in the Selfy office.	The second services	- 18 - 18 - 18 B	
Channel Feature	Distance from		Widt	h (m)	Length (m)	Medi	an Depth (1	m)	Max. Depth (m)
RIFFLE	Ded Dur		124 44	1. j			OPER WITH			
RUN	2 (W) 1000 X VOI 10 H 22 W 11					L Parkel Water	Simon, 1007) E		5	service of the servic
POOL MANAGEMENT OF THE PROPERTY OF		28 % 16 EXAMPLE 1	1 1 16 18 18 18 18 18 18 18 18 18 18 18 18 18	STEWS S	The first set.	as equipose ji	yl pro	Sec. 1		
ubstrate*: (The	se values should	d add up to	100%.)							
% Cob		% Gravel	89	% Sand	5	% Silt		% Mud/0	Clay	% Bedro
				1 1	.11		,	`		
uatic Vegetati	on*: (Note amo	ount of vege	etation or	algal gr	owth at the a	ssessme	ent site.)		
NONE										
				_						
ater Character	istics*: (Mark	all that app	ly.)			· · · · · ·				
ODOR:		☐ Sewage	s 🔲 1	Musky	☐ Chemical		None	Othe	r:	
COLOR:		☑ Clear		Green	☐ Gray		Milky	☐ Other	r:	
BOTTOM DEPOS	SIT:	☐ Sludge	; X	Solids	Fine sedime	ents 🗆	None	☐ Othe	er:	
WATER SURFAC	CE DEPOSITION:	□ Oil		Scum	☐ Foam	Þ	None	☐ Othe	er:	
omments: Pleas	se attach any ad	ditional con	nments to	this for	m.					
This information is	not to be used sol	lely for remo	val of a re	creationa	l use designat	ion but r	ather is	to provide	e a mor	e
mprehensive under	standing of water	r conditions.	Conseque	ently, this	information i	is not int	ended to	directly:	influen	ce a
cision on the recrea	ation use analysis	but may poi	nt to cond	itions tha	t need further	analysis	or that	affect ano	ther us	e.
ease verify that	vou have comp	leted all se	ctions, cl	necked :	all applicabl	e boxes	and th	at everv	thing	is complete.
	1.10	<i>y</i> .	11							
rveyor's Signatu	re:	7 19 -	Haml	or V.	Date of	f Survey	y: <u>ol</u> .	3MA9	200) All
rganization: A1	EST MEC	WATER		Positio	n: FIEL	PT	ECH			
		2.	7	7	anger and the					

			1}	,				-/												xygen		
	Waterb	oody ID:	0+	No. of London	-	Site #:			_							Date: ¿	23MA	17200	7	Time:	16:24	8
	(WBID_Site#) Estimated Channel Incision: 2 (m) (height between low bank width and water) Dissolved Oxygen: 7,89 (mg/L)																					
	GPS Location (taken at transect 1):																					
	UTM X: 0512878 UTM Y: 4423273 Horizontal Accuracy Estimate (GPS Data Quality): +/- 2/ (feet)											Dxygen:	j de.	· [_(% sat)							
	Average Stream Width: 8.2 (meters) Length of Survey Segment: 156 (meters) Specific Cond: 206.5 (µS/cm)																					
	Averag	je Strear	m Width	1: <u>C</u>). W		(gth of Su erage stre			10		meters)	\ _{\\/ate}	r Temn	erature:	22	. 7	(°C)	
	Field	d Staff:		DRH	F, 29	14			(ZUX ave	slaye suc	Jani Willia	.11 <i>9</i> -				Wate	Fremp	ciature.	wind med "		.(0)	
	, le. 1' - 5'	w. < 5 3e	a. Homen	(美水平)(海	E12 > 4 50		7. T. 347 299	· 经营工工法》		Trans	sect Cr	nee-Si	ection	Anna caracta	1,124,700	54 E		,	1000	E 17 - 27		
)1		02	2 3 44500	03	1 200 1	04)8	V - 4.5"Y	[A' go' 9	(CONTROLL		JAKU BIL
	Distance		Distance		Distance		Distance		Distance	1 1	Distance		Distance		Distance		Distance	09	Distance	10	Distance	
leasurement	(m)	Depth (m)		Depth (m)		Depth (m)	(m)	Depth (m)		Depth (m)		Depth (m)		Depth (m)		Depth (m)	(m)	Depth (m)		Depth (m)		Depth (m)
1	0.2	0.1	0.3	0.1	0.2	0.1	0.2	0.1	0.6	0.1	3,3	0.1	4.6	0.1	0.7	0, [1,7	0.1		0.1		<i>⊕</i> . □
2		0.4	1.2	0.2	0.8	0.2	0.7	0.3	and the state of t	0.2	3.9	0.1	5.0	0,1	1.2	0.1	2.4	0.1	2.7	0.1	1.3	0,2
3	2.0	0.3	9.1	0.3	1.	0.3	1.2	0.3	2.0	0.3	4,5	0.1	5.4	0.1	1.7	0.2	2.9	0.1	3.2	0.1	2.0	0.2
4	2.9	0.4	3.0	0.3	2.0	0.2	1.7	0.2	2.7	0.3	5.1	0.1	5.8	0.1	2.2	0.2	3.4	0,2	3.7	0.1	2.7	0.2
5	3.8	0.3	3.9	0.3	2.6	0.2	2.2	0.2	3,4	0.2	5.7	0.1	6.2	0.1	27	0.3	3,9	0.2	4.2	0.2	3.4	0.2
6	4.7	0.3	- 000 - 000	8.3	3.2	0.2	2.7	0.2	4. (0.2	6.3	0.1	6.6	0.1	3.2	0.3	4.4	0.2	4.7	0.3	4.1	0.3
7	5.6	0.2	5.7	0.2	3.8	0.2	3/2	0.2	4.8	40.1	6.9	0.1	7.0	0.1	3.7	0.4	4.9	0.2	5.2	0.3	4.8	0.3
8	6,5	0.2	6.6	0.2	4.4		3.7	0.2	5.5	40.1	7.5	0.1	74	0.1	42	0.5	5.4	0.2	5.7			0.3
9	7.4	0.2	7.5	5.2	5.0	0.1	4.2	0.1	6.2	0.1	8.1	ni	7.8	0.2	4.7	0.5	5.9	0.3	6.2		6.2	0.5
10	8.3		8.4	0.2	5.6	0.1	47	0.1	6.9	0.2	8.7	0.1	8,2	0,1	5-2	1 1	6.4	0.2	6.7	0,2	 	0.4
11	0. 4	0,1	9.3	0,2	6.2		5.2	· ·	7.6		9,3	D. 1	8,6	0.1	5.7	0.5	9.9	0.1		0.1	 	
	10.5	F010.		45			, (8	8.8			(Z)	8,8	0.1		(J.5	,		7,5			
ature Type (riffle,		1	9.4		8.0		6.4	<u> </u>			Ages of the second				6,4		7.2			_	(2 -1	
run, or pool)	YU	Λ	- Au	60	FU		YUA	. !	YUN	Λ	YWA	\	YUC	1	Luc	·2	VUI	$\gamma = 1$	ru	$\triangle = 1$	Onol	

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.

GPS location corresponds to Transect 01, Transects ordered in upstream to downstream order.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0m

Signed:	A Hall	Date	e: 93/1	
f 1	ONC	5-25-0	7	

WBID#	0674
Site#	1.3

Data Sheet B - Site Characterization

Date & Time: -/2 2 / 2 2 / 2 2 / 2 2 2 2 2 2 2 2 2 2				Site Location Description (e.g., road crossing):					
Date & Time: 5/23/07 17:00						_ US OF TIS			
Personnel (Data Collectors): DC/CB				15 of 14	urora St. Koal	Crossing			
Current Weather Conditions: windy clear				Facility Name: Green City LWTP Permit Number: MO 0112135					
Weather Conditions fo									
Drought Conditions?	No drought 🗹; Phase I C]∙ Phase II []	l. Phas	e III 🗍 · Phase)	V □· Unknown □				
brought Conditions	110 drought 23, 1 hase 1 2	2, 1 Huse II —	, 1114	, mase 1	, chalowit Es				
Locations:	ES (UNIVERSAL TRANSVER	SE MERCATOR	PROJE	CTION, IN METER	S)				
	es: UTM X: 05140		APRILITE APT - W.		19311	A STORY STORY AND STORY OF THE			
	TION METHOD (Indicate the m		termine			NUMBER OF STREET			
	Global Positioning System (Interpolation					
Static Mode			\nearrow		Topographic Map or DRG				
Dynamic Mode (Kinem			ļ		Aerial Photograph or DOQQ				
Precise Positioning Se	rvice		<u> </u>		Satellite Imagery				
Signal Averaging	· <u> </u>		ļ	Interpolat	tion Other	,			
Real Time Differential		u analysis	TOTAL DESIGNATION OF	til entremanderna	COMMENT DATE TO THE	The statement of product is a color			
HORIZONTAL ACCUR	RACYESTIMATE			924 - PR		This designation of the state of the state			
	GPS Data Quality				Interpolation Data Quality				
FOM	±Meter			Source	Source Map Scale: 1:24,000 1:100,000 Other ±Feet or ±Meters				
EPE	± <u>18,4</u> Feet or ±_	Meters							
PDOP									
otos:									
Photo ID#	Photo Purpose and I	Direction		Photo ID#	Photo Purpo:	se and Direction			
(WBID Site# ##)	(upstream, downstream,		£.	(WBID_Site# ##)	Site# ##) (upstream, downstream, other)				
2 100									
0674-12-17	DS VIII from 1	G 2							
067412-18	Postprins in stra	ex							
os Obsoniod*: (I	Tees entually observe	ad at time a	£ 0.22.20)					
	Uses actually observe								
☐ Swimming	☐ Skin diving	□ s	CUBA	diving	☐ Tubing	☐ Water skiing			
☐ Wind surfing	☐ Kayaking	□в	oating	***************************************	□ Wading	☐ Rafting			
☐ Hunting	☐ Trapping	□F	ishing		None of the above	Other:			
Describe: (Include nu	mber of individuals recrea	ting, photo-doc	cument	ation of evidence	of recreational uses, etc. U	se Data Sheet D- Recreation			
Use Interview when c	onducting interviews.)								
	onducting interviews.)								
	onducting interviews.)								
Use Interview when c									
Use Interview when c	itions*: (Mark all that pro				photos of evidence or unusual ite				
rrounding Cond City/county parks	itions*: (Mark all that pro	☐ MDC co	onserva	ation lands	☐ Urban areas	☐ Campgrounds			
Use Interview when c	itions*: (Mark all that pro Playgrounds State parks		onserva	ation lands					
rrounding Cond City/county parks	itions*: (Mark all that pro	☐ MDC co	onserva	ation lands	☐ Urban areas	☐ Campgrounds			
rrounding Cond City/county parks Boating accesses	itions*: (Mark all that pro Playgrounds State parks	☐ MDC co	onserva	ation lands	☐ Urban areas ☐ Nature trails	☐ Campgrounds ☐ Stairs/walkway			

WBID#	0674
Site#	12

dications of Hum	an Use*: (at	ttach photos))					
☐ Roads ☐	Rope swings	Foot paths	/prints D	ock/platform	☐ Livestock \	Watering [☐ RV / ATV Tracks	
☐ Camping Sites		☐ Fire pit/rin	g \square N	PDES Discharge	☐ Fishing Ta	ckle [Other:	
Comments:								
ream Morphology								
Upstream View's	Physical Des	-	_	ter present at the n obvious curre				
Channel Feature	Transect (#) Distance	ce from	Vidth (m)	Length (m)	Median Dept	h (m) Max	x. Depth (m)
RIFFLE		acces	s (m)					
RUN								
POOL								
materials and Annual School and	No gradient market	SOUNCE CONTROL OF CONTROL OF CONTROL	saartoo estimatro pulla	COLOROS HAS ACTORES		dublications waters	Routepois	
Downstream View	's Physical I	Descriptions:	Is there any	water present a	t this view?	□Yes □	l No	
			Zinierus Estundenden ann un	an obvious cur	rent?	∃Yes □	No	
Select one of the fo	Distance from		Width (m)	Length (n	N I Mad	an Depth (m)	Max	Depth (m)
RIFFLE	Distance from	ii access (iii)	widii (iii)	Lengin (i	ii) ivicu	an Depur (m)	IVIAX	ээсры (та)
RUN			estimate parti				71 192	
POOL							du di sa	
hotnotot: /These	1	1 - 1 1 4 - 10	007				117	
ubstrate*: (These % Cobble			(0%.) San	d 4	% Silt	% Mud/Cl	ay	% Bedroo
				,				
uatic Vegetation	Purphy bu	ount of vegeta	tion or algal	growth at the as	ssessment site	.)		
ater Characterist	ics*: (Mark	all that apply						
ODOR:		☐ Sewage		☐ Chemical	None	Other:		
COLOR:		[] Clear	☐ Green	☐ Gray	☐ Milky	Other:		
BOTTOM DEPOSIT	•	☐ Sludge	☐ Solids	☐ Fine sedimer		☐ Other:	3% 511	len.
WATER SURFACE	DEPOSITION:	□ Oil	☐ Scum	☐ Foam	□ None	Other:		
omments: Please a	attach any add	ditional comn	nents to this f	orm.				
	•							
his information is not mprehensive understa cision on the recreation	nding of water	conditions. C	consequently, the	his information is	s not intended t	o directly in	fluence a	
ease verify that yo	u have comp	leted all sect	ions, checked	l all applicable	boxes and t	hat everytl	ning is co	mplete.
ırveyor's Signature:		(Marca sar	Date of	Survey:	5/23/0	7	_
ganization: ME	C Water	Resources	Posi	tion: <u>Res.</u>	Tech.			
rganization: ME	007	Duc	5 - 7	24-07				

MEC Recreational Use Attainability Analysis Field Survey Sheet

	l		Naterbody ID: 0674 Site #: 120674_/2														Sint of Sul-1963.	Disso	Ived O	xygen		**
	Waterb	ody ID:	067	74	_	Site #:			674_	12						Date:	5/27/	07		Time: (D. BC 13	100
	Estima	ted Cha	annel Ind	cision:	1.3	(m) (he	_(WBID) ight bet		w bank	width a	nd wate	r)				Diss	solved (Oxygen:	8.	19	(mg/L)	
			(taken a													Dia	anticad (95	. 3	- (% sat)	
		Horizoi	ntal Acc	uracy E	stimate	UTM Y: (GPS D	eta Qua	거 (# > 기 ality):	+/-	8.4	(feet)										-	
	l.										0		200	ς,	4 \		Specific	c Cond:	144	1	(µS/cm))
	ı		m Width			<i>*</i>	(meters)	Leng (20x ave	ith of St erage str	urvey Se eam widt	egment: (h)	20		meters)	Water Temperature: 246 (°C)						
	Field Staff: DC/CB																					
	Transect Cross-Section																		(- // III)			
	01 02 03 04 05 06 07 08									8		9		0	1	1						
Measurement	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
1	0,4	1,0	0.4	0,1	0.4	oil	0.4	0.1	0.0	0.1	1.0	0,1	1,8	01	O, 14	٥.١	0,1	0.1	0,3	1,0	0.5	0.
2	0,9	0,2	0.8	0,1	1.2	0.1	0.96	0.1	0,81	0,6	1.57	0	2,22	0, 1	0.67	0.2	1.5	0,2	1.0	0.4	1.8	0,3
3	1.3	0.2	1.2	0.1	1.9	20,10	(.52	0.3	1.52	0,4	2.14	0, 1	2.64	0,1	1.24	0, 1	2.9	0,2	1.7	0.5	3	0,3
4	1.8	0.3	1.5	01	2.7	0.1	2.08	0.3	2.23	0.3	2.71	0.1	3.06	0,2	1.81	0,1	4.2	0,2	2.4	0.7	4.3	0,2
5	2.3	0.3	1.9	0.1	3,5	0.1	2.64	22	2,94	0,3	3.28	0.1	3.48	0,2	2.38	0.1	5.6	0, 2	3.1	0.9	5.5	0,2
6	2.8	0.3	2.3	0,9	4.3	0.1	3.20	0.2	3.65	0.2	3.85	0.	3,90		2.95	C)	7	0]	3,9	< 1,0	6.8	0.4
7	3.)	0.3	27	02	5.0	0,1			4.36	9.2		37,	4.32	0.1	3.52	0.[8.4	0,2	4.6	41,3		0.4
8	3.7	0.3	3.1	0,3	5.8	0,3	4.32		5,07	0.3	4.99	0, [4,74	0.1	4.10	601	9.8	0,3	5,3	_	_	0,4
9	42	03	3.4	0.3		0,3	4.88	0.1	5.78	0,2	5.56	0.7			4.70	0,4(11.1	0,3	6.0	41,0		0,6
10	11/	0.2	3.8	0.3		0:н	5.44	0.1	6.49	02	6.13		5.58	0,7	5.23	0. (12.5	0.3	6.7	0.6		0.7
11	ا مسو	Oil	4.2	01	5.1	0,0		0,1	7,2	0.1	6.7	0.1		0,1	5,8	0,1	- 1	O sup	74	0,1	 	® . [
12	53	0	4.4	0	8.2	5	7.2	0	7.5		4.8	0	6,4		8,2	0	14.0	0	7.5	0	13.2	
1∠ Feature Type (riffle run, or pool)	Pa		` '	Pool	Poul	~	Pos		Pou		Ru)	Ru		R:D		Pou		Po	- /	Post	
1311, 31 pool)	100	" (<u> </u>	w. Cr.	100		7 G W		7 97 387	т	(/ W	ריק	· V	ř.	1 1	7				fis.	10-1	

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0m.

Signed: ______ Date: 5/23/07

		,	
•			

WBID#	0674	
Site#	195	

Date & Time: 6/3"	Iran III.		Si	te Location	on Desci	ription (e.g., road crossing):					
Personnel (Data Collec	107 16;20		_								
	itors): DC/CB	•	Fo	15 OF	- Min	rara Sti Noar Cru	56195				
Current Weather Cond	itions: clear, windy		Pe	ermit Nur	nber: 🖊	rora St. Road Cru Breen City LWTP 10 011 2135					
Weather Conditions fo											
Drought Conditions?:	No drought ຝັ; Phase I □;	; Phase II □	; Phas	se III □;	Phase I	V □; Unknown □	NATION SERVICE				
Site Locations:											
	ES (UNIVERSAL TRANSVERSI	E MERCATOR	PROJE	ECTION, IN	METER	S)	oroniari yanzanaki zinoza				
Site GPS Coordinate	s: UTM X: 05/465	;4		Y	: 44	19014					
			termine	the location	onal data.		incompany not a life in the factor of the incompany in th				
Static Mode	lobal Positioning System (Gi	PS)	<u> </u>	, T	Opogran	Interpolation	ın ·				
Dynamic Mode (Kinema	atic)		<i></i>			otograph or DOQQ					
Precise Positioning Ser	vice			S	Satellite I	magery					
Signal Averaging				lı	nterpolat	ion Other					
Real Time Differential F						· V · · · · · · · · · · · · · · · · · ·					
HORIZONTALIACCUR	HORIZONTAL ACCURACY ESTIMATE										
,	GPS Data Quality			`		Interpolation Data	Quality				
FOM	±Meters				Source I	Map Scale: 1:24,000 1:100,0	00 Other				
EPE	± <u>60,6</u> Feet or ±	Meters			Meters						
PDOP											
Photos:	notos:										
Photo ID# (WBID Site# ##)	Photo Purpose and Di (upstream, downstream, or			Photo (WBID S			e and Direction vnstream, other)				
	View from DS Tear			(1,545_6	inco _nay	(upinemi, uov	instruit viiet)				
	VX Pom US TEA				l						
00/42	,	,									
Uses Observed*: (0	lses actually observed	l at time o	fsur	vev.)							
☐ Swimming	☐ Skin diving					☐ Tubing	☐ Water skiing				
☐ Wind surfing	☐ Kayaking		oating			☐ Wading	Rafting				
☐ Hunting	☐ Trapping		ishing	<u> </u>		None of the above	Other:				
_					evidence	A*	Data Sheet D- Recreational				
Use Interview when co	onducting interviews.)	- •									
Surrounding Condi	tions*: (Mark all that prom	note or impede	recreat	ional uses.	. Attach p	photos of evidence or unusual iten	ns of interest.)				
☐ City/county parks	☐ Playgrounds	☐ MDC co				☐ Urban areas	☐ Campgrounds				
☐ Boating accesses	☐ Boating accesses ☐ State parks ☐ National in					☐ Nature trails	☐ Stairs/walkway				
☐ No trespass sign	☐ No trespass sign ☐ Fence Steep slop					-□ None of the above □ Other:					
Comments:	,	7									

WBID#	0674
Site#	1.3

Data Sheet B - Site Characterization

(must be completed for each site)

ndications of H	uman Use*: (at	tach photos)						
☐ Roads	☐ Rope swings	☐ Foot paths/p	rints D	ock/platform	☐ Livestoc	k Watering	□RV	/ ATV Tracks
☐ Camping Sites		☐ Fire pit/ring	ПN	PDES Discharge	☐ Fishing	Tackle	☐ Othe	er:
Comments:	/	Vore	·					
Stream Morphol	ogy:							
Upstream View	v's Physical Des	-		ter present at t n obvious curr			□ No □ No	
	e following char	nnel features:		100				
Channel Feature	Transect (#	Distance access	- 1	Vidth (m)	Length (m)	Median I	Depth (m)	Max. Depth (m)
RIFFLE								
RUN								
POOL								
250 SECTION 1		eroni spranen				<u>, </u>		
Downstream V	iew's Physical I				40 (31.78)	30 30 5 4 7	□ No	
		300	f so, is there	an obvious cu	irrent?	☐ Yes	□ No	
Channel Feature	Distance from		Width (m)	Length ((m) M	edian Depth	(m)	Max. Depth (m)
RIFFLE	Distance non	The state of the s		i congini			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2 miles
RUN	150 000000000	A BULLEY OF BUILDING	A Same			100000000000000000000000000000000000000		
POOL					104			
Substrate*: (The	aco voluos chould	add up to 100	0/.)					
% Co		6 Gravel	% San	1 5	% Silt	% Mud	l/Clay	% Bedroo
A	Hank (1) 1-4-					:4- \		
Aquatic Vegetal	al periph		on or aigai j	growin at the a	issessment s	ne.)		
Vater Characte	ristics*: (Mark a	all that apply.)						
ODOR:		☐ Sewage	☐ Musky	☐ Chemical		ie 🗆 Otl	ner:	
COLOR:		☑ Clear	☐ Green	☐ Gray	☐ Mil	ky 🗆 Oth	ier:	
BOTTOM DEPO	SIT:	☐ Sludge	☐ Solids	Fine sedim	ents 🗆 Non	ie 🗆 Otł	ner:	Thsile
WATER SURFA	CE DEPOSITION:	□ Oil	☐ Scum	☐ Foam	₽ Ñoi	ne 🗆 Otl	her:	
Comments: Plea	se attach any add	litional comme	ents to this f	orm.				
ermi ti di ci i i i i i i i i i i i i i i i i	-44-11-1	-1 · C · · · · · · · · · · · · · · · · ·	- F		4 1	. ! - *	.	_
This information is comprehensive unde lecision on the recre	erstanding of water	conditions. Co	nsequently, tl	nis information	is not intende	d to directly	y influen	ce a
Please verify that	you have comp	leted all section	ons, checked	l all applicabl	le boxes and	l that ever	ything	is complete.
Surveyor's Signat	ure:	4/ (or-	Date o	of Survey:	5/23	107	=
Organization:	EC Water	Resources	Zine Posi	tion: Res	Tres		/	
Surveyor's Signat Organization:	6, 2007	jue!	5-24-	07			-	

MEC Recreational Use Attainability Analysis Field Survey Sheet

-	Waterbody ID: OG 74 Site #: DG 74_13 Estimated Channel Incision: Is (WBID_Site#) Estimated Channel Incision: Is (MBID_Site#) UTM X: 4419014 DE UTM Y: 0514654 Horizontal Accuracy Estimate (GPS Data Quality): +/- CO, G (feet) Average Stream Width: IS (meters) Length of Survey Segment: (20x average stream width) Field Staff: DG 8 Transect Cross-Section										Dissolved Oxygen Date:											
	j.			a zgaya			puisson		25Tr 25	Tran	sect Cr	oss-S	ection	op-mer _{al} s		med As		ing year	Series Antison, etc.		eses s	
	Distance)1	Distance)2	Distance	3	Distance	4	Distance	5	Distance	16	Distance	7	Distance	8	Distance	9	Distance	0	1 Distance	1
Measurement	(m)	Depth (m)	4	Depth (m)		Depth (m)	4	Depth (m)	4.3	Depth (m)	I	Depth (m)	1	Depth (m)	l	Depth (m)	44	Depth (m)		Depth (m)	(m)	Depth (m)
1	1,3	0,1	0,9	0,1	0.1	0.1	0.1	01	0.1	0,1	0,1	0.1	0,1	0.1	0,1	0.1	0,1	O.1	0,3	0,1	0,1	0,1
2	2,2	0.1	1.9	0,2	1,5	0,3	1.6	0,2	Toward Toward	0,2	1.4	<0,1	0.7	0,2	1,5	0,4	1.3	0,1	1,7	0.6	10	0.6
3	3.1	0,1	3.0	0.1	2.9	0,5	3,0	0.7	2.1	0.00	2.6		1,3	0.3	2.9	0,8	2.5	0,1	3.0	71,0	1.9	0.7
4	4	01	4.0	6.0	H.3	0,6	4.5	0,1	3.1	0.1	3.9		1.9	€0d	4.3	0,9	3,8	0 1	4.4	and a contract of the	2.8	710
5	49	0.2	5,0	0.1	5.7	0,6	4.0	0, 1	4.1	,	5.1	5.	2.6	and a second	5,7	71.0		0.1	5.8	- London	3.7	
6	5.8	0.3	6.1	0,2		0.6		0,3	5,1		6.4	e see you do	3,2	ar , or en alphanets	7.2	0,4			7.2	The state of the s	4.6	of loss and opposite
7	6.7	0,2	7.1	0,3		0.4		0.3	6.0	-	7.7	Carbinament	3.8	*1 Profits your Black	8.6	0,3	7.4	0.2	8.5	1	5,5	r) This make a page of
9	7.6	02	8,1		9.8			0,4	7.0	all de la la	8,9	SAL COMPANY Administra	4.4	1	9,9	0.4			9.9	0.8		may Carpopana of Gall
0		0,3	9,1	0,11			_	0,5	8.0		10,2		5,1		11.4	04	9,9	0.3		0.7	7.3	
	0	0,4	102		12.6		13.2		9.0		11.4	0.4	 	A !	12.8			0.4		 		0.7
10	. % %	0.1	11,2	0.1	140		111,7	0.4		0 :			6.3		14.2				14,0	0.1	305	
11		~	` -	_	14.2		148	0	10.0		12.7		 	0	15,2		12.3	0,1	14,0	0	10	0,7
12 Feature Type (riffle, run, or pool)	10.4 PO	ol are	11.3	0,	Po.		Pos		17.0 RH	°C	12.8 R.4		8,3 F.F			70 T	6.		1 1 July		Bu	-
Noton	Transacts will be measured beginning on left descending bank and finishing on right descending bank.												-				-					

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0.m.

Signad:		Date:	5/23/0-
Signed: _	0 1-0	-	<u></u>
	Whr C 5-24	~ C'	

•			

Date & Time:	5/02/			Si	te Location	n Desc	ription (e.g., road crossing):		
Date & Time:									
Personnel (Data	Collectors)	: DC+CB		- P-	U J	The state of the	1010 Brilge Cros	ising	
Current Weather	Conditions	s: clear, windy		Pe	ermit Num	ber:	Gran Cin warp MO 0112135		
Weather Condition	ons for Pas	/					70(0 0 (72)		
Drought Condition	ons?: No d	rought 🛛; Phase I 🗖	; Phase II	□; Phas	se III □; I	Phase)	ſV □; Unknown □		
Site Locations:	NINATES (II	NIVERSAL TRANSVERS	E MERCAT	OR PRO IF	CTION IN	METER	<u> </u>	TWI WARE THE TOTAL	
		TM X: 05/45							
							16566	* - C.Y* > P. LEGELANDACTIVA AND A. A. SPALANDAC	
MONEONIAL GO		Positioning System (G		determine	, the location	ch court	Interpolation		
Static Mode				J)O			ohic Map or DRG		
Dynamic Mode (F							otograph or DOQQ		
	Precise Positioning Service						Imagery		
Signal Averaging				+	Int	erpola	tion Other		
Real Time Differe			SICHE MAR JOHN	no a treasy same	10.VS.12.18(7.87.114	e a balabate	- The second sec	TO THE CONTROL OF THE PARTY OF	
HORIZONTAL A	CCURACY	ESTIMATE	a value de la		9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Pariting a second formation of the second of	Constitution and Ambandary Addition Ambandary	
s.		GPS Data Quality	. '			4	Interpolation Data	a Quality	
FOM							Map Scale: 1:24,000 1:100,0	000 Other	
EPE	EPE <u>± 97.5</u> Feet or ±Meters					±Feet or ±Meters			
PDOP									
hotos:									
Photo ID# (WBID_Site#_##)		Photo Purpose and D	irection		Photo WBID_Site			e and Direction wastream, other)	
0674-14-12	US Vi	(upstream, downstream, o	graffet		(,	(apontani, aa	The control of the co	
0674-14-13	115 Vi	en Rich DS TA	ansecr.						
06 74-11-12									
Inca Observed	l*• /Tlass	actually observed	l at tima	of au	uov.)				
		<u> </u>					0		
☐ Swimming		☐ Skin diving		SCUBA	diving		☐ Tubing	☐ Water skiing	
☐ Wind surfing		☐ Kayaking		Boating			☐ Wading	Rafting	
☐ Hunting		☐ Trapping		Fishing			7 None of the above	Other:	
			ng, photo-	document	tation of ev	ridence	e of recreational uses, etc. Us	e Data Sheet D- Recreational	
Use Interview w	hen conduc	cting interviews.)							
Su <u>rrounding C</u>	ondition	15*: (Mark all that pron	note or impe	ede recreat	ional uses.	Attach j	photos of evidence or unusual iter	ms of interest.)	
☐ City/county	parks	☐ Playgrounds		conserva	ation lands		☐ Urban areas	☐ Campgrounds	
☐ Boating acce	☐ Boating accesses ☐ State parks ☐ National for						☐ Nature trails	☐ Stairs/walkway	
	☐ No trespass sign ☐ Fence Steep slope						☐ None of the above ☐ Other:		
			_ F. eq	1.0	•				
Comments:									

WBID#	06721
Site#	14

ndications of Hu	man Use*: (at	tach photos)						
☐ Roads ☐	Rope swings	☐ Foot paths	/prints 🔲 I	Dock/platform	☐ Livestoc	k Watering	□RV	/ ATV Tracks
☐ Camping Sites		☐ Fire pit/ring	g 🗆 1	NPDES Discharge	☐ Fishing	Tackle	☐ Oth	ier;
Comments:		None						
tream Morpholo	gy:			-		*		
Upstream View'	s Physical Des	•	•	ater present at than obvious curre	'	r	□ No □ No	
Select one of the	following chai		•	19 c.	O.11. C	# 103 L	, 110	
Channel Feature	Transect (#		ce from	Width (m)	Length (m)	Median I	Depth (m)	Max. Depth (m)
RIFFLE								
RUN								
POOL								
e Santa Santa Santa Santa		KYRIS SPOSSOWA	WELL BLOKE	on reality and mark		Jeografia	202000	Į.
Downstream Vic	w's Physical I	dittt				? □ Yes	□ No	
			1100/1902/08/25/04/10/02/07/02	e an obvious cu	rrent?	☐ Yes	□ No	
Select one of the Channel Feature	Distance from		Width (m)	Length (m) I M	ledian Depth	(m)	Max. Depth (m)
RIFFLE	Distance non	i access (iii)	widui (ili)	Lengur (in) ivi	edian Depar	(11)	Max. Depth (iii)
RUN						Market Street	file (
POOL	SE PUBLICATION		1874.00 74.25					A Final State
ubotroto*: (The		- 44 4- 10	007.)			,		
ubstrate*: (Thes % Cobb			0%.) ?0 % Sai	nd C	% Silt	% Muc	l/Clay	% Bedroc
quatic Vegetatio	Mininal per	unt of vegeta	tion or algal	growth at the as $< 5\%$	ssessment si	ite.)		
/ater Characteri	stics*: (Mark a	all that apply.)					, , , , , , , , , , , , , , , , , , ,
ODOR:		☐ Sewage	☐ Musky	☐ Chemical	□/Non	e 🗆 Oth	ner;	
COLOR:		Clear	☐ Green	☐ Gray				
BOTTOM DEPOSI	T:	☐ Sludge	☐ Solids	Fine sedime	and the second section of the sectio			1114
WATER SURFACE	E DEPOSITION:	□ Oil	☐ Scum	☐ Foam	□°Nor	ne 🗆 Oth	ner:	
omments: Please	attach anv add	litional comm	ents to this	form.				
	•							
This information is nomprehensive undersection on the recrease	tanding of water	conditions. C	onsequently,	this information is	s not intende	d to directly	y influen	ice a
lease verify that y	ou have compl	leted all secți	ons, checke	d all applicable	e boxes and	that ever	ything	is complete.
urveyor's Signatur	e:			Date of	f Survey:	5/23/	07	
rganization:	ECWA	er Resource	s In Pos	ition: Zes.	Trek			
urveyor's Signatur Organization: February 16,	2007	, i	mu c	5-7-4-	07			

MEC Recreational Use Attainability Analysis Field Survey S	Shee
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	6.35							PC _	f = 1.1				-			Talkan Mary	> + 1327Am f			xygen		
-	Waterb	oody ID:	06	74	-	Site #:	(WBID_		014-1	4						ı		107			13:40	
					1.8		ight bet	ween lo		width a	nd wate	r)				Dis	solved (Oxygen:	8.6	62	(mg/L)	
	GPS L	ocation	(taken a	at transe 6566	ect 1):	UTM Y:	05	1453	7							Dissolved Oxygen: / 0 3 / (% sat)						
		Horizon	ntal Acc	uracy E	- stimate	(GPS D	ata Qua	ality):	+1- 9	77,5	(feet)					l						
	Average Stream Width: 15 (meters) Length of Survey Segment: 300 (meters) Specific Cond: 429 (µS/cm))								
	Field Staff: David Carani + Chad Backer													(°C)								
	Field	d Staff:		Jan-a	(ara	1. j.	had	hi the e	8-15													
		The field of the second of the	Number of States	e d man		e e	v	\$2.50 pro 1 2.50 pro 1.50 pro	By Same	Trans	ect Cr	oss-Se	ection	Photo State of the	Marine yes		S A. SEA.	A corper	A Service Constitution of the Constitution of	and the second		- 500g
		1		2		3		4	0 Distance	5	Distance	6	Distance	7	Oistance	8	Distance	19	1 Distance	0	1 Distance	1
Measurement	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	(m)	Depth (m)	2	Depth (m)	(m)	Depth (m)	1	Depth (m)	(m)	Depth (m)	1>	Depth (m)	(m)	Depth (m)
1	0,1	0.1	5,2	0.1	0.1	0.1	6.0	0.1	0.2	0	0.2	0.1	0.5	0.1	1,4	0,1	0.6	0,1	€,⊋	0.7	0,2	0,4
2	1.0	0,2	5.9		1,1	0,1	1.2	0.2	1.2	0,2		0,2	1,2	0,1	2.2	02	1.5	0,1	1.10	0.1	1.0	0,3
3	2,0	0.1	6.7	T-TENERAL POLYTY	2,1	0,1	2.3	200	スス	40.1	2,0	40,1	1.9	0,2	3.0	0,2	2.3	0.1	2.1	Ö, 2	1.8	0,2
4	2.9	0.1	7.4	e samenting	3.0	0.1	3.3	601	3,2	40,1	2.9	40,1	2.7	0.1	3.8	0.3	3.2	0, 2	3.0	0,1	2.6	03
5	3.9	0.2	8.2	t dan Midlers	4.0	0.2	4.4	<0.1	4.2	0,1	3.8	0.1	3.4	0,1	4.6	0.2	4.1	0. J	4.0	0.1	3.4	02
6	4.8	0,2	8.9	edia (j. resignesia	5,0	0,1	5,4	0.1	5.2	0.2	4.7	40.1	4.1	0.1	5.4	0. 2	5.0	0, 3	4.9	0, 1	4.3	0.2
7	5.7	0.1	9.6	Varianty, manufacture	6.0	0.2	6.4	0,1	6.2	O.	5.6	0,1	4.8	0,1	6.1	0.2	5,8	0.1	5.8	0,1	5.1	0, 1
8	6.7	20.1	10.4	THE PROPERTY OF SERVICE	7.0	0.2	7.5	0.0	7,2	0,2	6.5	0.1	5,5	0. 2	6.9	0.1	6.7	0,1	4.8	0,1	5.9	01
9	7,6	€0,\$	11,7	r	8.0	0,1	8.5	0.1	8.2	0.1	7.4	0,2	6.3	ان ئ	7.7	0.1	7.6	0.1	7.7	2,2	6.7	0.1
10	8.6	400	11.9		8.9	0,1	9.6	0.1	9.2	0.2	8.3	0.2	7.0	0,2	8.5	01	8.4	2,3	8.7	0,2	7.5	0.1
11	9.5	0,1	12.6	0.1	9.9	0,1	10.6	0.1	6,0)	0,1	9,2	0,1	کن	0.(9.3	0,1	9,3	0.7	9.6	0,1	8.3	Q.1
. 12	and the same	0	12.5	Ü	1.0.0	0	15.6	C	10,5	0	10.6	0	8.0	0	9,4	0	9,4	0	9.4	O	4,5	ପ
Feature Type (riffle, run, or pool)	Rit	P1.	RA	(le	R:A	fle	R: Pr	4	Rn	n	Riti	C/z	Ru	L / %	Bif	FIRE	Ri	~ 2 ⁴	RV	^	£	pi Pc
Notes:			-	-	descending t				ing bank. 🦹							Zun					Rit	9/2
	Transects i	n order of u	p to downstr	ream.	ments less t									- Maria Sancial Sancia								
		,			insufficient)					is insufficier	nt); Measure	ement 12 dis	stance = ent	ire wetted w	idth distanc	e and depth	T⊋0m.					

Signed: Date: $\frac{5/23/0}{0}$

WBID#	0674
Site#	15

Date & Time: 5	/23/07	12:45		Si	te Location Des	scription (e.g., road crossing)						
Personnel (Data C				DE Apollo Bridge								
		+ -/ -/		Fa	Facility Name: Green Cin Cart							
Current Weather	Conditions:	clear, winder		Pe	PS Apollo Bridge Facility Name: Green Cin Unit Permit Number: MO 0112135							
Weather Condition	ns for Past	10 days:										
Drought Conditio	ns?: No dr	ought 🗹; Phase I 🗆	; Phase II	□; Phas	se III 🗆; Phase	e IV □; Unknown □						
lite Locations:												
	INATES (UN	IVERSAL TRANSVERS	E MERCATO	R PROJE	CTION, IN METE	RS) wyroniarwydair byfringi	Tomas yerar banno ing					
Gita CDG Carani	:	MIN OCITA	- 1		\$7.							
HORIZONTAL COL	LECTION M	ETHOD (Indicate the me Positioning System (G	thod used to	determine	the locational da	a) standarda sa	and a familiar of regions and political design and place of the property of the second					
Static Mode	Global F	Positioning System (G	PS)			Interpola aphic Map or DRG	ition					
Dynamic Mode (K	inematic)			+-/								
Precise Positionin					Aerial Photograph or DOQQ Satellite Imagery							
Signal Averaging	-			1		ation Other						
Real Time Differe	ntial Proces	sing		\top		**	` · . · · ·					
		STIMATE	words wenter	a Komercus	TO A TOUR CO.	Pa vinoje orave do vinoje and 3 - vinoje orave do vinoje orave	CARTING (CARTING OF A CARTING CARTING AND A					
	A. Cali	GPS Data Quality	- 1 () + H/M ± () = V3 ()	4771 V P 		Interpolation D	ata Quality					
FOM	±	Meters			Sourc	e Map Scale: 1:24,000 1:100),000 Other					
EPE	±′	<u>10. 7</u> Feet or ±	Mete	rs	±Feet or ±Meters							
PDOP					TIGG of TINICION							
hotos:												
Photo ID# (WBID Site# ##)		Photo Purpose and Di (upstream, downstream, o			Photo ID# (WBID Site# ##)		ose and Direction					
0674_15_10	DE VIII	w From Tearses 1	uici)		(WELD SHEH HH)	(upsitean,	downstream, other)					
0674-15-14		- from TII										
10014-19-14	V) V (**	-										
lese Obsarvad	*• /II sos s	actually observed	l at tima	ofsum	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
	1	•			* '		3					
		☐ Skin diving			·	☐ Tubing	☐ Water skiing					
☐ Wind surfing		☐ Kayaking		Boating		☐ Wading	Rafting					
☐ Hunting		☐ Trapping		Fishing		None of the above	☐ Other:					
			ng, photo-d	ocument	tation of eviden	ce of recreational uses, etc. U	Use Data Sheet D- Recreational					
Use Interview wh	nen conduct	ing interviews.)										
Surrounding Co	ondition	S*: (Mark all that pron	note or impe	de recreat	ional uses. Attach	photos of evidence or unusual i	tems of interest.)					
☐ City/county p	arks	☐ Playgrounds	☐ MDC	conserva	ation lands	☐ Urban areas	☐ Campgrounds					
	sses	☐ State parks	☐ Natio	nal fores	its	☐ Nature trails	☐ Stairs/walkway					
☐ Boating acce												
☐ Boating acce		☐ Fence	Ď Steep	slopes		☐ None of the above	Other;					
☐ No trespass si		☐ Fence	ØSteep.	slopes		☐ None of the above	Other;					
			ĎOSteep	slopes		☐ None of the above	Other:					

WBID#	06	74
Site#	15	

Data Sheet B - Site Characterization

(must be completed for each site)

Indications of I	luman Use*:	(attach photo	s)					
☐ Roads	☐ Rope swing:	s 🗆 Foot path	ns/prints 🗆	Dock/platform	Lives	stock Watering	□ RV /	ATV Tracks
☐ Camping Site	:s	☐ Fire pit/ri	ng 🗆	NPDES Discharge	☐ Fish	ing Tackle	☐ Othe	r;
Comments:		\mathcal{N}_{o}	nl					
Stream Morpho	ology:						and the water for the contract of the contract	
Upstream Vie	w's Physical l	~	•	water present at t			□ No	
				e an obvious curr	rent?	∑ Yes □] No	
Channel Feature		channel feature	es:	Width (m)	Length (m) Median I	Depth (m)	Max. Depth (m)
	1141130		ess (m)	Width (iii)		9 13101111	2001 (111)	7.1 2 op 117 (117)
RIFFLE								
RUN								
POOL			/					
37-6		N. S. There are	There is a second			3 F W		
Downstream	view's Physic	al Description	A THE RESERVE	ny water present			□ No	
* * * * * * * * * * * * * * * * * * *	***************************************		PRODUCTING LODGE COMM.	ere an obvious cu	urrent?	□ Yes	□ No	
Select one of		from access (m)	es: Width (m) Length	(m)	Median Depth	(m)	Max. Depth (m)
RIFFLE	Distance	from access (fir)	widai (iii) Dengui	(111)	wicdian Depth	(iii)	wax, Deput (m)
RUN		Apple of the second		321	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		100000000000000000000000000000000000000	
POOL				200 A 1840 A				
Caladada (Ti	1 1		000()	THE MILES				
Substrate*: (T)	obble	% Gravel		Sand 5	% Silt	% Muc	1/Clay	% Bedroc
								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Aquatic Vegeta	tion*: (Note			****	assessmen	it site.)		
		minimal pr	riphytim	25%				
Water Charact	eristics*: (M	ark all that ann!	v)					
ODOR:	(1120			ky Chemical		None Oth	her:	
COLOR:		Clear	☐ Gree			Milky □ Oth		
BOTTOM DEP	OSIT:	☐ Sludge			The second second second second second	None Ott	total w tarrespectuations as	·5% Alres
	ACE DEPOSITION							
WATER BOIL	ACC DE COITE	ON: Oil	□ Seur	m 🗆 Foam	TUA	None 🗆 Otl	ier:	
Comments: Ple	ase attach any	additional com	ments to thi	s form.				
*This information comprehensive und decision on the rec	lerstanding of w	ater conditions.	Consequently	y, this information	is not inter	nded to directly	y influenc	ce a
Please verify tha	it you have co	mpleted all sec	tions, chec	ked all applicab	le boxes a	and that ever	rything i	is complete.
Surveyor's Signa	ture:			Date o	of Survey:	5/23	107	
Organization:		r Reswere	s Fra P	osition: <u>Res</u>	Tech,	/		
February		01	nc z	5-24-07				

MEC Recreational Use Attainability Analysis Field Survey Sheet

	GPS Lo	ted Cha ocation UTM X: Horizor e Strea	nnel Inc (taken a 4416 htal Accomm Width	cision: at transe accept uracy E	ct 1):stimate	(m) (he UTM Y: (GPS D	(WBID_ ight bet 051 ata Qua	ween lo -/ <i>-/ OE</i> ality): meters)	w bank	width a	(feet) urvey Se eam widt	egment: h)	_24	°° (meters)	Diss	solved (solved (Specific	3/07 Oxygen: Oxygen: c Cond:	8.65	2.3	(mg/L) (% sat)	
		11		2	<u> </u>	3		4	er e	Trans		oss-Se	a, wa v prema	<i>™</i> ₹		8		9	Austrous	0	1	on S. C. Sandon, C. C. Martin
Measurement	Distance (m)	Depth (m)	Distance	Depth (m)	Distance (m)	Depth (m)	Distance	Depth (m)	Distance (m)	Depth (m)	Distance	Depth (m)	Distance	Depth (m)	Distance (m)	Depth (m)	Distance	Depth (m)	Distance	Depth (m)	Distance	Depth (m)
1	0.1	0.3	0.2	0.1	0.1	Ove	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	Q.	0.1	J. I	Ø: 1	0.1	0.1	€0,1
2	1.7	0,1	1.8	0.	1.6	0.5	1,7	0,5	<u> </u>	0,6	1.5	71.0	1.6	710	1.7	0,4	1,6	0,2	in the	0,2	0.9	of Company
3	3,4	0.5	3,3	0,4	3.1	0.4	3,2	ور ع			2.9			Total Views	3.3	0.4	3.1	0.2	2.7	0.3	1.7	ally (primary) van
4	5,0	0.7	4.9	0.5	4.6	0,8	· -	0.2	43	0.4	4.2	71,0	4.5		4.8	۵,5	4.7	0,3	3.9	0.4	2.4	Total Section of the
5	6.7	- I	6.5	0.6	6.1	0.6	6.3	0, 1	5,7	0.2	5.6	71,0	6.0		6.4	0.8	6.2	o, ^L	5,2	0.8		
6	8,3	0.1	8.1	0, 4		0,5	7.8		7.1	0.2	7.0	۰,٦	75		8.0	0.5	7.7	03	6.5	7/.0		and hypophesis.
7	9,9	0.1	9.6		91	0.5	9.4		8.5	0,2	8.4		9.0	Adams all over	9,6	7/3	9,2		7.8	710	4.8	
8	11.6	0.1	11.2		10.6	0,5			9, 9	0,2	. 🚾	0.4	10.5	M-574-0-1	11.2	and the second of the second	10, 7		9.1	21.0	5,6	and the last of th
9	13.2	0.2	128	0.6	12.1	0. "	125	D,7	11.3	1/2 1/2		0,3	11.9	* man, reported house	12.7	- ANN 1911	12.3	0.6	10,3	74.0		
10		0.6		0.4	13.6	0:5		0.6	12.7	0.7	12.5	0,2	13.9		14.3		13.8	0.6	11.6	0.8	2.1	in and the second
11		0.2	149	0.4	15.1	0.1		0,1	14. (Ø.1	13,9	0.1	14.4	0.1	16,4	0.(15.3	0,1	124	2.1	 	₹0.1
12 Feature Type (riffle,	16.7	0	16,0	6	15,2		15,7		14.1	٥	14,0	0	15,0		16.0	0	14,4	L "	13.0	Ŷ.	8.0	0
. run, or pool)	Pool		1/20	ŀ	Poul		P001		100	1	Poul		Post		1000		Post		p,	d i	R:ff	اً ۲

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0m.

200

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	,		

WBID#	0674
Site#	16

Date & Time:	5/22/2-	De De	11:25	Si	te Location De	scription (e.g., road crossing	();					
Personnel (Data (, ,	_	11,0-1		15 Auch	. 21						
		<u> </u>		Fa	Facility Name: Green City wwyp							
Current Weather	Conditions:	clear, wind		Pe	Permit Number: MO 01/2/35							
Weather Condition	ons for Past	10 days:										
Drought Conditio	ns?: No dr	ought 🏿; Phase I 🗆	; Phase II	□; Pha	se III 🗆; Phase	e IV □; Unknown □						
						TI-						
Site Locations:	DINATES (UN	UVERSAL TRANSVERS	E MERCATO	R PROJE	CTION, IN METE	RS)	SERVER TO THE CONTRACTOR OF THE SERVER SERVE					
"		MX: 05/48				1413781						
HORIZONTAL COL		ETHOD (Indicate the me		determine	the locational da		and the second s					
Static Mode	Global F	Positioning System (G	PS)	, X	Topogr	Interpo	lation					
Dynamic Mode (K	(inematic)				1 - 1 3.	aphic Map or DRG						
Precise Positionin		***************************************			Aerial Photograph or DOQQ Satellite Imagery							
Signal Averaging						lation Other						
Real Time Differe	ntial Proces	sing			FE 18006A							
HORIZONTAL AC	CCURACY E	STIMATE		a william i	eren aktie	MANAGORAN TATAN MANAGARAN MANAGARAN KANTAN MANAGARAN KANTAN MANAGARAN KANTAN MANAGARAN	GATTO CONTRACTOR TO SERVICE AND ADDRESS OF THE SERVICE AND					
	777	GPS Data Quality			DE LES	Interpolation I	Data Quality					
FOM	±	Meters			Source Map Scale: 1:24,000 1:100,000 Other							
EPE	±_3	36, 2 Feet or ±	Mete	rs		+ Meters						
PDOP					±Feet or ±Meters							
Photos:												
Photo ID#		Photo Purpose and D			Photo ID# (WBID Site# ##)		pose and Direction					
(WBID Site# ##)	US Pr	(upstream, downstream, o	(ner)		(WBID Site# ##) (upstream, downstream, other)							
· ·	DS Viv	Aug 1										
, ,		- from TIU-PI	a .				•					
0674_16_16	DOUR	- tram ATU-PA	w10 GF €	Park of gra								
						<u> </u>						
Jses Observed	*: (Uses 2	actually observed	l at time	of sur	vey.)							
☐ Swimming		☐ Skin diving		SCUBA	diving	☐ Tubing	☐ Water skiing					
☐ Wind surfing	_	☐ Kayaking		Boating		☐ Wading	☐ Rafting					
☐ Hunting		☐ Trapping		Fishing		None of the above	☐ Other:					
			ng, photo-d	locument	tation of eviden		Use Data Sheet D- Recreational					
Use Interview wh	hen conduct	ing interviews.)										
Surrounding Co	ondition	S*: (Mark all that pron	note or impe	de recreat	ional uses. Attacl	n photos of evidence or unusual	items of interest.)					
☐ City/county p		☐ Playgrounds	<u> </u>		ation lands	☐ Urban areas	☐ Campgrounds					
☐ Boating acce		☐ State parks	☐ Natio	-		☐ Nature trails	☐ Stairs/walkway					
	□ No trespass sign □ Fence Steep slopes □ None of the above □ Other:											
ino despass s	1811	L Police	Pro Dicch	stopes		La rone of the above						
Comments:												
		, , , , , , , , , , , , , , , , , , , ,										

WBID#	06	74	
Site#	1.6		

Data Sheet B - Site Characterization

(must be completed for each site)

dications of Huma	an Use*: (at	ttach photos)						
□ Roads □ I	Rope swings	☐ Foot paths/pr	rints 🗆 D	ock/platform	☐ Livestock	Watering	□ RV	/ ATV Tracks
☐ Camping Sites		☐ Fire pit/ring	□ N	PDES Discharge	☐ Fishing Ta	ickle	Othe	er:
Comments:	mC			-				
ream Morphology	<i>ı</i> :					a millionim	and the second s	
Upstream View's l		criptions: Is th	nere anv wa	ter present at th	his view2-15	Yes [∃ No	
o positional view of	. 11, 010 W. 2 00	_	-	n obvious curre	- Alle Alle Alle Alle Alle Alle Alle All		J No	
Select one of the fo	llowing cha		o, is there a	ii oovious cui k	Sitt:	103 _	1 110	
Channel Feature	Transect (#			Vidth (m)	Length (m)	Median I	Depth (m)	Max. Depth (m)
RIFFLE		access (,iii)					
RUN								
POOL								
SHELDS TO A STRAIGHT OF THE A SAME STOP OF	Co.		and the property of the second law of	THE FORE THE METERS OF THE STREET, A STREET	, of T. co. fron all species of	When it would be a	Y arm s	
Downstream View	's Physical I	Descriptions: 1	ls there any	water present a	at this view?	□ Yes	□ No	
		16	so, is there	an obvious cu	rrent?	□ Yes	□ No	
Select one of the fo			SAT BERLEVIA		palier in francisch in der verschauft von der verschiede von	A STATE OF THE STA	innestration.	
Channel Feature RIFFLE	Distance from	n access (m)	Width (m)	Length (m) Med	ian Depth	(m)	Max. Depth (m)
RUN						4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
POOL	20 20 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	07 37	(105) (105) (416) (105)					
	4201712988888717710	CONTRACTOR CONTRACTOR	(1988) <u>(1955)</u>	loud a cattring of a cattring	TIM TOVERNO CAR	generatur inc	6º4 % v	елинеми 🔠 дравны пас персова.
ubstrate*: (These				- 1	-		101	DC.
S % Cobble	9	% Gravel & G	○ % San	d [% Silt	% Mud	/Clay	25 /5 % Bedro
quatic Vegetation	*: (Note amo	ount of vegetation	on or algal	growth at the as	ssessment site	:.)		
Some peri	physom on b	adrocks <	100/6					
								y 1188481
ater Characterist	ics*: (Mark	all that apply.)						
ODOR:		☐ Sewage	☐ Musky	Chemical	None	Oth	ier:	
COLOR:		Clear	☐ Green	☐ Gray	☐ Milky	☐ Oth		
BOTTOM DEPOSIT		☐ Sludge	☐ Solids	Fine sedime	ents 🗆 None	☐ Oth	ner: San	d asnal some
WATER SURFACE	DEPOSITION:	□ Oil	☐ Scum	☐ Foam	☐ None	☐ Otl	ner:	_
D1	1 1	1			· · · · · · · · · · · · · · · · · · ·			
omments: Please a	ittach any add	ditional comme	nts to this f	orm.				
This information is not	to be used sol	ely for removal o	of a recreatio	nal use designati	ion but rather is	to provi	de a mor	e
omprehensive understate cision on the recreation								
	and the same of th	"")	/					
lease verify that yo	u háve comp	leted all section	ns, checked	l all applicable	e boxes and t	hat ever	ything	is complete.
urveyor's Signature:	f-r		<i>-</i>	Date of	f Survey: 5	/23/	07	
rganization: MEC	Wader	Resources,	Intere_ Posi	tion: Res.	Tres	, ,		
urveyor's Signature: rganization: February 16, 20	007	Ouc :	5-24	-07				

MEC Recreational Use Attainability Analysis Field Survey Sheet

			**					DU		_						hy an se	4.g2 (+3-)-		lved O			y "Jeneral
	Waterb	ody ID:	067	4		Site #:	15		71/_1	6						Date:	5/2	3/07		Time:	18/25	-
				cision:				ween lo	w bank	width a	nd wate	r)				Diss	solved C	Dxygen:	9,-	70	(mg/L)	
	GPS Lo	UTM X:	(taken a <u>-4413</u>	at transe 3つもは	ct 1):	UTM Y:	0514	1206	4 3	<u> </u>	(foot)			¥		Diss	solved C	Oxygen:	109	· <u>7</u>	(% sat)	
	Horizontal Accuracy Estimate (GPS Data Quality): +/- 36.2 (feet) Average Stream Width: 13 (meters) Length of Survey Segment: 260 (meters) Specific Cond: 436												1	(µS/cm)								
				<u>.</u> C/C.						erage stre	-	_		(1	neters)	Wate	r Tempe	erature:	<i>a</i> 2	3_	,(°C) ₹.	
					8 9 9			-50-53-53		Trans	ect Cr	oss-Se	ction		objectively sold state in					e ee .	~~	
		1		12		3		4		5	_	6	0	7	0	8	_	9		0	1	1
Measurement	Distance (m)	Depth (m)	Distance (m) 🚐	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
1	0:1	40	03	0.1	0,1	0.4	0,2	0,1	€.	0.1	0.2	0,1	D, 2	7.0	0.1	(O)	0.1	0,1	0.1	0.1	0,7	0.1
2	1.6	71,0	1.9	Ø .3	1.8	0.5	2.0	۵, ۰	1.9	Q Ú	1.0	0.1	1.41	0.3	1.5	a season of the	1.4	0.4	1.3	٠, ک	1.5	0.2
3	3.0	21.3	3,4	0.1	3,6	0.6	3,8		3.6	Φ, 3	1.9	0.1	2.6	0.2	2.9	· · · · · · · · · · · · · · · · · · ·	2.6	0.4	2.5	0,2	2.3	0.2
4	4,5	71.0	4.8	0.2	5,3	0.6	5.7	0.7	5,3	0.2	2.7	0.1	3.8	0.1	4.3	- The state of the	3.9	0.5	3.7	0.1	3,2	03
5	5.9	71,0		0.3	7,0	0.7	7.5	Ü, B		0.2	3.5	0,1	5,0	0.2	5,7	الشعور وزاعي إريي	5,2	0.3	4.9	O. J	4.0	0.4
6	7.4	71.0	7.7	0.4		0.7	9.3	0,6		0,2	4.4	0.1	6,2	0.3	7.1	فدمانون وبزر	6.5	0,3	6.1	0, 2	4,8	0.5
7	8.9	0.5	9.1	0.7	10,5	0.7	11.1	9,8	,	013	5.2	0.1	7.3	0,3	8.5	Annual St. Section (1)	7.7	0.3	7.2	0.3		0.6
8	10,3	0.1	10,6	08	12,2	0.6	12.9	0,7	12.0	0,3	6.0	Lail	8.5	0,2	9.9	44.00	20	0,3	8,41	0,2	64	0.6
9	11.8	< 0.1	12.0	0.0	13.9	0,4	14.8	0.6	13.7	0.3	68	60 t	9.7	0.3	113	i i	10,3	0,2	9.6	0.2	7,3	0:5
10	13.2	Ci	13,5	710	15,7	ं.कृ	16.6		15.4	0.3	7.7	0.1	10.9	0,3	12.7	لمح	11.5	0.2	10.8	0.2	3	0.3
11		١,٥	14.9	0.6		छ ःध	18.4		17.1	0.1	8.5	0.1	12.1	0,1	14.1	40.1	12.8	0.0	12.0	0.1	8.9	0.1
12	15	0	15	<i>t</i> O	17.5	0	18.5	0	17,3		8.7	0	12.2	~~	14.2	0	13.1	0	12.3	0	9.0	0
Feature Type (riffle, run, or pool)	P 20	****	100		100	- Anna Carlo	Fes		Pa 0 1		Rip	*	Ru	og ben	Ril	Am	R.	. ~	0	, l	2011	

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire welter with distance and depth = 0.1m (unless depth is insufficient);

Signed Date: $\frac{5/23/0}{0.000}$

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	•		

WBID#	0674
Site#	12

Data Sheet B - Site Characterization

(must be completed for each site)

Date & Time: 5/33/37 10'25 Site Location Description (e.g., road crossing):													
Personnel (Data				1	DS From Arone Rd								
		•		Fa	cility Name:	Green City WWTT							
		dear 75		Pe	Permit Number: MO 0112135								
Weather Condition	ons for Past	: 10 days:		_									
Drought Condition	ons?: No di	ought 🗹; Phase I 🗆); Phase	II □; Phas	se III 🗆; Phase	e IV □; Unknown □							

Site Locations: Location coor	DINATES (UI	VIVERSAL TRANSVERS	SE MERCA	TOR PROJE	CTION, IN METE	RS)	COLLEGE RECORD THE CONTROL OF SECURITY OF SECURITY SECURITY OF SEC						
		TM X: 05/380				7// 33 %0							
HORIZONTAL CO		ETHOD (Indicate the me		to determine			Applied to the second s						
Static Mode	Global	Positioning System (G	SPS)		Topogr	Interpol aphic Map or DRG	ation						
Dynamic Mode (I	Kinematic)					Photograph or DOQQ							
Precise Positioni						e Imagery							
Signal Averaging						lation Other							
Real Time Differe	ential Proces	ssing											
HORIZONTAL ACCURACY ESTIMATE													
į.		GPS Data Quality		Interpolation D	Pata Quality								
FOM	±	Meters	, <u>- ,</u>	Sourc	e Map Scale: 1:24,000 1:10	0,000 Other							
EPE													
PDOP	PDOP Wilders												
Photos:													
Photo ID#		Photo Purpose and D			Photo ID#		oose and Direction						
(WBID Site# ##)	US 600	(upstream, downstream, a	other)	***************************************	(WBID Site# ##)	(upstream	, downstream, other)						
		m Transcer-luf											
· ·	No Line	~											
		actually observed			* ′								
☐ Swimming		☐ Skin diving	1	□ SCUBA	diving	☐ Tubing	☐ Water skiing						
☐ Wind surfing	5	☐ Kayaking	E	☐ Boating		☐ Wading	☐ Rafting						
☐ Hunting		☐ Trapping	[☐ Fishing		None of the above	Other:						
Describe: (Inclu	de number (of individuals recreati	ing, photo	o-document	ation of eviden	ce of recreational uses, etc.	Use Data Sheet D- Recreational						
Use Interview w	hen conduc	ting interviews.)											
					_								
Surrounding C	ondition	IS*: (Mark all that pror	mote or im	pede recreati	ional uses. Attach	n photos of evidence or unusual	items of interest.)						
☐ City/county		☐ Playgrounds		C conserva		☐ Urban areas	☐ Campgrounds						
☐ Boating acce		☐ State parks	☐ Nat	tional fores	ts	☐ Nature trails	☐ Stairs/walkway						
☐ No trespass s		☐ Fence		ep slopes		☐ None of the above	Other:						
_ ito despass s			1 / 310	op stopes	100141110111111111111111111111111111111		L Out.						
Comments:													
							Ŕ						
	· ·												

WBID#	0674
Site#	

February 16, 2007

Field Data Sheets for Recreational Use Stream Surveys

dications of Hu	ıman Use*: (at	tach photos	s)							
□ Roads	☐ Rope swings	☐ Foot path	s/prints [□ Dock/p	latform	□ Liv	vestock W	atering (⊐ rv /	ATV Tracks
☐ Camping Sites		☐ Fire pit/ri	ng [□ NPDE	S Discharge	☐ Fi	shing Tacl	de [□ Othe	er;
Comments: /\/a	ort									
eam Morpholo	ogy:							_	P.	L.
Upstream View	's Physical Des	-	•	•	oresent at the		v? □X □ Y		Йo	
Select one of the						aur.	***************************************			
Channel Feature	Transect (#	·	nce from ess (m)	Width	(m)	Length	(m)	Median Dep	oth (m)	Max. Depth (m)
RIFFLE		acce	.33 (11)							
RUN										
POOL										
Select one of the	e following cha		-v6 -peri to 5/28 12.5 m.	A ST SWINGS WAY	obvious cu Length (i		/~: /~ s, · · / /get/	Yes E	I No	Max. Depth (m)
RIFFLE							1.			752411
RUN				10000						
POOL		Salabora Mila Ma	Ball a Devil	14. B 44.				A THE SE		
bstrate*: (The										
% Cob	oble 9	6 Gravel	6V %	Sand		% Silt		% Mud/C	lay	% Bedroo
uatic Vegetati ሥ∽	ion*: (Note amo	unt of veget	ation or al	gal grov	th at the as	ssessme	ent site.)			
iter Character	ristics*: (Mark a	all that apply	/.)							
ODOR:	`	☐ Sewage	☐ Mu	sky 🗆	Chemical	E	None	Other:	;	
COLOR:		Clear	☐ Gr	een 🗆	Gray		Milky	Other:		
BOTTOM DEPOS	SIT:	☐ Sludge	□ Soi	lids 🔎	Fine sedime	nts 🗆	None	☐ Other:		Springer
WATER SURFAC	CE DEPOSITION:	☐ Oil	☐ Sci	um 🛘	Foam		None	☐ Other:	•	
mmente: Dicco	se attach any ado	litional som	manta ta il	ic fam.						
millents. I leas	se attach any acc	intional com	ments to ti	118 101111.						
his information is in morehensive under its in on the recrease is in on the recrease in the re	rstanding of water	conditions.	Consequent	ly, this ir	iformation is	s not int	tended to	directly in	nfluenc	ce a
ease verify that	you have comp	leted all-sec	tions, che	cked all	applicable	e boxes	and tha	at everyt	hing i	s complete.
veyor's Signatu	re:		and the same of th		Date of	Surve	y: <u> </u>	/23/	Ό <u>γ</u>	
ganization: MF	ire:	Pessurce	s Inc.	Position:	Res. 7	Tech,	 (
		100	, o							,

MEC Recreational Use Attainability Analysis Field Survey Sheet

																-0-		Disso	lved O	xygen		
	Watert	ody ID:	060	4/		Site #:										Date:	5/2	1/0 7		Time:	ې د ن	ī
							(WBID_ eight bet	Site#) ween lo	w bank	width a	nd wate	r)				Diss	solved (Dxygen:	8.6	19	(mg/L)	
			(taken a		ct 1)-	UTM Y:	1	3 862								Diss	solved ()xvaen:	97		(% sat)	
	ĺ	Horizoi	ntal Acc	uracy E	stimate	(GPS D	ata Qua	ality):	+1- 7	5	(feet)								140000000000000000000000000000000000000			
	Averag	e Strea	m Width	n: .	15		(meters)	Leng	ith of Su	ırvey Se	gment	30	0 (meters)				435		(µS/cm	·)
								× 3	(201 ave	erage str	eam widi	h)				Wate	r Temp	erature:	90,	ર્જ	(°C)	
	1 1611	J SIAII.	100					- 2	romy ()													
	2	- 18		- 4								oss-Se						-				
	Distance	1	Distance	2	Distance	13	Distance	4	Distance	5	Distance	6	Distance	7	Distance	8	Distance	19	Distance	0	Distance	1
Measurement	(m)	Depth (m)		Depth (m)		Depth (m)		Depth (m)	(m)	Depth (m)		Depth (m)		Depin (m)		Depth (m)	Taxas .	Depth (m)		Depth (m)	(m)	Deptn (m)
1	0,4	0,1	0,3	0,1	0,2	0.1	0.3	0-1	0.7	0.1	0.3	0,1	3.6	0 1	1.5	0,1	0,2	0.1	0,2	6.1	Ø , ±	0.1
2	1,8	0.4	1.9	0,3	1.6	0,2		0.1	1.9	0,2	1.3	0,2	46	0.1	2.3	0.2	1.9	03	1.9	0.3	100 000	40.1
3	3.1	0,5	3.4	0,3	2.9	012	3.9	0.1	3,5	20.1	2.2	0.3	5,5	0_1	3,7	0.2	3,5	0.1	3,5	03	3.5	60,1
4	4.5	0,9	5.0	0.4	43	0.1	5,7	0.1	5,2	LO. 1	3.2	0.3	6.5	0.1	4.0	6.0	5.2	0.1	5.2	0.1	5,/	60.1
5	5.8	0.6	6.5	0.3	5,7	0.2	7.5	02	6.9	1.01	4.2		75	0,1	4.8	0,2	6.8	0.1	6.9	0.1	6,7	20,1
6	7.2	0.6	8.1	0,1	7.1	0.2			8.6	Zo.1	5,2	0.2	8.5	0,1	5,6	0,3	8.5	0.1	8.6	0.1	8.4	0.1
7	8,6	0.7	96	0.2	8.4	0,2	42	20.1	10,2	0.1	6.1	0.1	94	011	4.4	0.3	10.1	Oil	10,2	04	10.0	0.1
8	9.9	0,6	11.2	0,2	9.8	02	13.0	60.1	11.9	0.1	7.1	00	10.4	0.1	7.2	0.3	11.4	077	11.9	0 .1	11.6	0.2
2 9	11.3	0.5	12.7	0.2	11.2	0.1	14.8	20.1	13.6	0.1	8.1	1.0	11.7	0,3	8,1	0.3	13.4	0.7	13,6	6,0	13.2	0.2
10	12.6	0.8	14,3	0.2	12,5	0.0	16,6	0.1	15.2	0.1	9.0	0.1	12.3	0.4	8.9	0,3	15,1	0.1	15,2	0.1	149	0.1
11	14.0	1,0	15.6	O_1	13.9	0,1	184	0.1	16.4	030	10.0	0.1	13,3	0.3	9.7	0.1	16,7	0.1	16.9	0,1	16.5	0.1
	19.1	0	16.2	75.	16.4	D	18,8		17	0	10,5	P	13.4	0	9.8	0	169	0	18.5	D	16.7	0
Feature Type (fiffle run, or pool)	1001		Pau	1	Roo	1	PA	Cle	PIP	Cly .	Pos	1	Pou	e/-	Pos	/	Pos	1	P, J	7.	RA	er.

otes: "Transects will be measured beginning on left descending bank, and finishing on right descending bank,

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream critier.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m juriess clepth is insufficient); Measurement 12 distance = arrive went of width distance and expth = 0m.

			•

WBID#	0674
Site#	18

Date & Time: 5/2-3	107		Site Location Description (e.g., road crossing):								
Personnel (Data Colle	ctors): DCICR		Facility Name: Green City Permit Number: 10 017 2135								
Current Weather Cond	, ••••		Facility Name: Green City								
	clear 15	•	Permit Number: 10 0112135								
Weather Conditions for	or Past 10 days:										
Drought Conditions?:	No drought ☑; Phase I □	l; Phase II □;	Phase II	□; Phase	IV □; Unknown □						
Locations:											
	ES (UNIVERSAL TRANSVERS	E MERCATOR PI	ROJECTI	ON, IN METER	Standard Sparan Hillere Coldin	- Christia de la compara de la					
	es: UTM X: 05/4		·		09826						
	TION METHOD (Indicate the me		mine the	ocational data.).						
	Hobal Positioning System (C	SPS)	· · · · · · · ·		Interpola	tion					
Static Mode Dynamic Mode (Kinem	natio)	-	\sim		ohic Map or DRG						
Precise Positioning Se				Satellite	otograph or DOQQ						
Signal Averaging	17100				tion Other						
Real Time Differential	Processing			- interpola	Con Other						
	RACY ESTIMATE	rotundi lizzi	FINANCE.	True wantument	Trunyanannaz - Bada - 73	Suppose that the suppose is the suppose of the supp					
	GPS Data Quality	Interpolation Da									
FOM	±Meters		2 "		time to the state of the state	177.					
EPE	± 77,5 Feet or ±			Source	Map Scale: 1:24,000 1:100						
PDOP	±										

otos:											
Photo ID# (WBID Site# ##)	Photo Purpose and D (upstream, downstream,			hoto ID# BID Site# ##)		ose and Direction downstream, other)					
	, Pourpriors on randh			BID SILON WITH	(upstream, t	owisiteals, other)					
5674 18-BX 1	iking US from US to	·									
100 / 4 2 · C · 20 · C · 3 · C · 3	ling Us from trans	unsert									
0674 -18-04 600	king DS (4 sward bridge	Mon Who	تريمه يتدوية								
es Observed*: (I	Jses actually observe	d at time of s	urvev	,							
Swimming			JBA div		☐ Tubing	☐ Water skiing					
		·		ing							
☐ Wind surfing	☐ Kayaking	☐ Boa	ting		☐ Wading	Rafting					
☐ Hunting	☐ Trapping	☐ Fish			None of the above	Other:					
						se Data Sheet D- Recreation					
Use Interview when c	onducting interviews.)	orprints on	A 59	ralbars 1	in assessment force	haser photo 1					
rrounding Cond	itions*: (Mark all that pro	note or impede rec	creational	uses. Attach r	photos of evidence or unusual ite	ems of interest.)					
☐ City/county parks		☐ MDC cons			☐ Urban areas	☐ Campgrounds					
☐ Boating accesses	☐ State parks	☐ National f			☐ Nature trails	☐ Stairs/walkway					
☐ No trespass sign	☐ Fence	Steep slop			☐ None of the above	Other:					
				. 50m-	deep hots not	I I					
Comments:	deep holes dire sects	city under	De 130	/) • • • • • • • • • • • • • • • • • •	-ice po river o my	5- 19-0 AS					
719n	20012										

WBID#_	0674
Site#	1 Engle

ndications of Hui	man Use*: (a	ttach photo	os)								
□ Roads □	Rope swings	∑ Foot pat	hs/prints	□ Do	ck/platform	ПΓ	ivestock W	/atering	□RV	/ ATV Tracks	
☐ Camping Sites	☐ Camping Sites			□ NF	DES Discharge	□ F	☐ Fishing Tackle		☐ Oth	er;	
Comments:	ce provids	(Umaru T									
tream Morpholo	gy:								,		
Upstream View's	s Physical Des			•	er present at i	Andrew Walter St.	w? [¤[] Y⊌Y		l No No		
Select one of the				2000	PC						
Channel Feature	nannel Feature Transect (#)		ess (m)	W	fidth (m)	Length	(m)	Median D	epth (m)	Max. Depth	(m)
RIFFLE											
RUN											
POOL											
Select one of the Channel Feature	following cha		15 of calculation Library Continues	317) (114)	an obvious cu	eministrativisco	san next a bet curevi	l Yes in Depth (□ No (m) □	Max. Depth	(m)
RIFFLE	Distance from	ii access (iii)	widti	1 (111)	Length	(10)	Median D		July	імах, Беріп	(111)
RUN	The decision				1700		10000				
POOL											.gozon
Substrate*: (These	e values should	l add up to	100%)								
% Cobb		% Gravel		% Sand		% Sil	t	% Mud	/Clay	% E	Bedro
Aquatic Vegetation	on*: (Note amo		etation or	algal g	rowth at the a	assessn	nent site.)			
Water Characteri	stics*: (Mark	all that appl	ly.)								
ODOR:		☐ Sewage	e 🗆 N	⁄lusky	☐ Chemical	[None	☐ Oth	er:		
COLOR:		€ Clear		Green	☐ Gray	(☐ Milky	☐ Othe	er:		
BOTTOM DEPOSI	T:	☐ Sludge	· 🗆	Solids	Fine sedim	ients [□None	☐ Oth	er:	3ans/	
WATER SURFACE	E DEPOSITION:	□ Oil		Scum	☐ Foam	ļ	Z None	☐ Oth	er:		
Comments: Please	e attach any ade	ditional con	nments to	this fo	rm.						
This information is necomprehensive unders decision on the recreat	tanding of water	r conditions.	Conseque	ntly, th	is information	is not in	ntended to	directly	influen	ce a	
Please verify that y		<i></i>	/						_	is complete	≥.
Surveyor's Signatur Organization:	e:				Date o	of Surve	y: <u>5</u> /	123/0	7		
Organization: ME	- WAR R	? ~\$0~1175	Trace	_ Positi	on: Res. 7	Tech,	(

		ME	C Recreati	onal Use A	ttainability	Analysis F	ield Su	rvey She	et		
		•						Francisco -	Disso	olved Oxyge	n (nemarkanika katalah katalah katalah
Waterbody ID	: <u>0674</u>	Site #	: <u>06742</u>	<u>18</u>				Date: 5/	23/07	Time:	09:00
			(WBID_Site#)					· '	,	~ (-	
Estimated Ch	annel Incision:	_ <i>] , \{</i> _ (m) (h	ieight between	low bank width	n and water)			Dissolve	ed Oxygen:	7.60	_ (mg/L)
UTM X		sect 1):UTM Ystimate (GPS			C (fact)			Dissolve	ed Oxygen:	82.9	_(% sat)
Average Stre	·	12	(mete		Survey Segme	nt: 240	(meters)		cific Cond	: 433	_(µS/cm)
Field Staff		,			stream width)			Water Te	mperature	:_20,2_	_(°C)
				The second secon	insect Cross-	Section					THE SECTION OF THE SE
01	02	03	04	05	06	07	Distance	8	09	10	11

	Transect Cross-Section																					
	01		02		03		04		05		06		07		08		09		10		11	
Measurement	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
1	0,3	0.1	0,1	0.7	0.1	0.1	0.2	0.1	20	0,1	0.5	0.1	0.2	0.1	0,1	o,t	0.5	0.1	0.2	0.1	0.5	0.1
2	21), <i>[</i> .0	2.0	21,01	1.2	0.4	0.8	0.4	3.4	0.4	1.6	0.2	0.8	71,0,	1,2	0.6	60	0.3	1.0	0.3	2,2	0.4
3	3.8	A COLUMN TO A	3.9		2.3	6.3	1.3	0.6	4.7	0.4	2,7	0.3	1,4		2.3	0.5	20	0.5	1.9	0.4	3,8	0.4
4	5,6	Clear About 1988 (IV	5.8		3.3	0.4	1.9	6.7	6.1	0.3	3.8	0.4	1.9		3,3	0.3	2,8	0.7	2.7	0.4	5.5	0.3
5	7, 3	* Hillipp Lincoln	7.7	* Name of	4.4	0.2	2.4	07	7.5	0.2	4.9	0,5	2.5	and the second	4.4	0 ,3	3.6	0,6	3,5	0.4	7.1	0,4
6	9.1	and the second	9.6	Niller or server	5.5	0,2	3,0	0.6	8.9	0.2	6.0	0.5	3,1	1	5,5	0.4	4.4	0.6	4.4	0.4	જ,૪	0.4
7	10.9	TAL WITH THE PROPERTY OF THE	11.5		6.6	0.2	3.6	0.5	10,2	< p.1	7.1	0,5	3,7	The state of the s	6.6	0.5	5.1	0,5	5,2	0.3	10.5	0.3
8	12.6	A Challenge III of the	134	0.1	7.7	0.3	4.1	0.5	11.6	0,3	8.2	0.4	4.3	- مايدون دي ديوون	7,7	0.5	5,9	0.4	4.0	0.3	12,	0.2
9	14.4	and the state of the state of	15.3	0,2	8.7	0.7	4.7	0.3	13.0	0,3	9.3	0.3	4.8	- Philosophia	8.7	0.4	6.7	0.4	6.8	0, 3	13.8	20,1
10	16.1		17.2	>/.0	9.8	0.3	5.2	0.2	14.3	0,3	10.4	0.3	514	سلمد	9.8	0.3	7,4	0,7	7.7	0.3	15,4	0.2
11	17.9	0.1	19.1	0,1	10.9	0.1	5,8	0.1	15,7	0,1	11.5	1,0	6.0	0.1	10,9	O. F	8,2	Dil	4.5	0.1	17.7	0.1
12	18	O	19.2	0	11	0	6.0	0	16.0	0	12.0	D	6.3	0	114	0	8.4	0	10,0	0	17.5	0
Feature Type (riffle run, or pool)	Pool		P. 3	, 7	Rn	*	Poo	4	Ru	nn	Poo	ì	Pal		Pool		Pso		R	s	Run	

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as <0.1; and greater than 1m as >1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire welled width distance and depth = 0.7m



Site# 1 Photo ID# 674-1-1032, Upstream



Site# 1 Photo ID# 674-1-1034, Slope



Site# 1 Photo ID# 674-1-1033, Downstream



Site# 1 Photo ID# 674-1-1035, Bridge

WBID# 0674



Site# 1 Photo ID# 674-1-1036, PWSD flags



Site# 2 Photo ID# 674-2-1038, Upstream



Site# 1 Photo ID# 674-1-1037, Fence



Site# 2 Photo ID# 674-2-1039, Downstream



Site# 2 Photo ID# 674-2-1040, Bridge



Site# 3 Photo ID# 674-3-1043, Upstream



Site# 2 Photo ID# 674-2-1041, Slope



Site# 3 Photo ID# 674-3-1044, Downstream



Site# 3 Photo ID# 674-3-1045, Bridge



Site# 4 Photo ID# 674-4-1047, Upstream



Site# 3 Photo ID# 674-3-1046, Slope



Site# 4 Photo ID# 674-4-1048, Downstream



Site# 4 Photo ID# 674-4-1049, Bridge



Site# 5 Photo ID# 674-5-1051, Upstream



Site# 4 Photo ID# 674-4-1050, Slope



Site# 5 Photo ID# 674-5-1052, Downstream



Site# 5 Photo ID# 674-5-1053, Slope



Site# 6 Photo ID# 674-6-1055, Upstream



Site# 5 Photo ID# 674-5-1054, Bride, Windsor Rd



Site# 6 Photo ID# 674-6-1056, Downstream



Site# 6 Photo ID# 674-6-1057, Bridge



Site# 7 Photo ID# 674-7-1059, Upstream



Site# 6 Photo ID# 674-6-1058, Slope



Site# 7 Photo ID# 674-7-1060, Downstream



Site# 7 Photo ID# 674-7-1061, Slope



Site# 8 Photo ID# 674-8-1063, Upstream



Site# 7 Photo ID# 674-6-1062, Bridge



Site# 8 Photo ID# 674-8-1064, Downstream



Site# 8 Photo ID# 674-8-1065, Slope



Site# 9 Photo ID# 674-9-1067, Downstream



Site# 9 Photo ID# 674-9-1066, Upstream



Site# 9 Photo ID# 674-9-1068, Slope



Site# 9 Photo ID# 674-9-1072, Bridge



Site# 10 Photo ID# 674-10-1070, Downstream



Site# 10 Photo ID# 674-10-1069, Upstream



Site# 10 Photo ID# 674-10-1071, Slope



Site# 10 Photo ID# 674-10-1072, Bridge



Site# 12 Photo ID# 674-12-17, Downstream



Site# 12 Photo ID# 674-12-16, Upstream



Site# 12 Photo ID# 674-12-18, Footprints



Site# 13 Photo ID# 674-13-14, Upstream



Site# 14 Photo ID# 674-14-12, Upstream



Site# 13 Photo ID# 674-13-15, Downstream



Site# 14 Photo ID# 674-14-13, Upstream



Site# 15 Photo ID# 674-15-10, Downstream



Site# 16 Photo ID# 674-16-07, Upstream



Site# 15 Photo ID# 674-15-11, Upstream



Site# 16 Photo ID# 674-16-08, Downstream



Site# 16 Photo ID# 674-16-07, Downstream



Site# 17 Photo ID# 674-17-06, Downstream



Site# 17 Photo ID# 674-17-05, Upstream



Site# 18 Photo ID# 674-18-01, Upstream / foot prints



Site# 18 Photo ID# 674-18-02, Upstream



Site# 18 Photo ID# 674-18-04, Downstream



Site# 18 Photo ID# 674-18-03, Upstream